FILE NO.

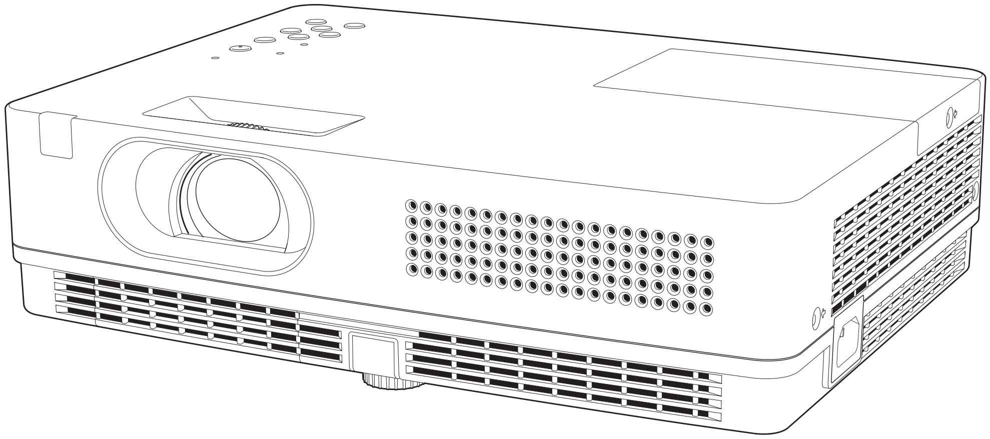
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XD2200
PLC-XD2600

U.S.A, Canada,
Europe, U.K, Asia
Brazil

Original Version



Chassis No. KR8-XD220000
KS8-XD260000

Match the Chassis No. on the rating label of the projector with the Chassis No. in the Service Manual.
If the Chassis No. in the Original Service Manual does not match the projector's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to the servicing.

PRODUCT CODE

PLC-XD2200	PLC-XD2600
1 122 519 00 (KR8AC)	**1 122 521 00** (KS8AC)
1 122 519 04 (KR8EC)	**1 122 521 04** (KS8EC)
1 122 520 00 (LR8AC)	**1 122 522 00** (LS8AC)
1 122 520 02 (LR8CC)	**1 122 522 02** (LS8CC)
1 122 520 03 (LR8DC)	**1 122 522 03** (LS8DC)

REFERENCE NO. SM5111242-00

Contents

Safety Instructions

Safety Precautions

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line ( ) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT T HE PROTECTIVE SHIELD IN POSITION AND PROP ERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.13" x 3.35" x 9.72" (333.5mm x 85.2mm x 247.0mm) (Not including protrusions)
Net Weight	5.7 lbs (2.6 kg)
Foot Adjustment	0˚ to 10˚

Panel Resolution

LCD Panel System	0.55" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
SD/HD TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Throw Distance	4.3' - 38.7' (1.30m - 11.80m)
Projection Lens	F 2.0 ~ 2.15 lens with f 18.38 mm ~ 22.06 mm with manual zoom and focus
Projection Lamp	215 W

Interface

Video Input Jack	RCA Type x 1
Audio Input Jack	RCA Type x 2
Computer In 1/S-video In/Component In /Computer In 2/Monitor Out Audio Input Jack	Mini Jack (stereo) x 1
Computer In 1/S-video In /Component Input Jack	Mini D-sub 15 pin x 1
Computer In 2 / Monitor Out Terminal	Mini D-sub 15 pin x 1
Control port	D-sub 9 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable)
LAN Connection Terminal	RJ45

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100–120 V (3.5A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 100–240 V (1.9A Max. Ampere), 50/60 Hz (For other countries)

Operating Environment

Operating Temperature	41˚F–95˚F (5 ˚C–35 ˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60 ˚C)

Remote Control

Battery	AAA or LR03 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30˚
Dimensions	2.0" (W) x 0.7" (H) x 4.3" (D) (52 mm x 18 mm x 110 mm)
Net Weight	2.37 oz (67 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

C UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

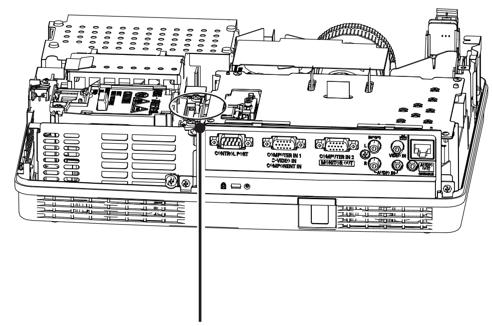
This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW601) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 85˚C, the thermal switch opens to stop the operation of the power supply circuit.

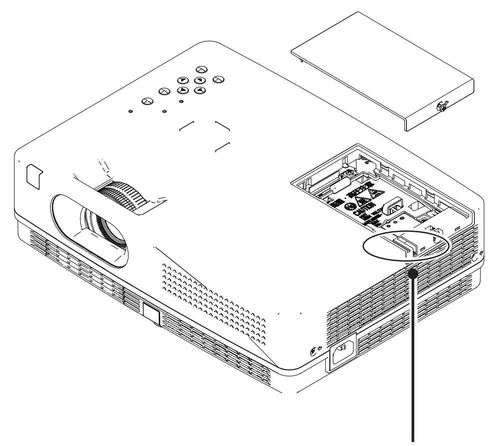
The thermal switch can be reset itself automatically when the internal temperature becomes normal.

When the internal temperature reaches near 50˚C, the thermal switch returns automatically.



Lamp cover switch

The lamp cover switch (SW902) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



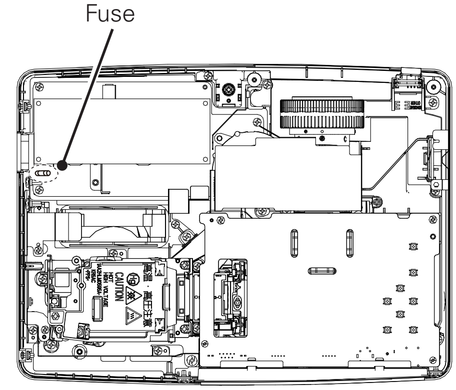
Fuse

A fuse is located inside of the projector. When the POWER indicator is not lighting, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

or

Fuse Part No, : 423 034 4101
TYPE T6.3AH 250V FUSE
Hollyland Co, Ltd. TYPE 50CT063H



How to replace the fuse

1. The fuse is placed on the power board. Remove the cabinet top , main board, optical engine and the fan (FN001).
2. Take the fuse off, and replace the new one with the specified type.

Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.
- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the POWER indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

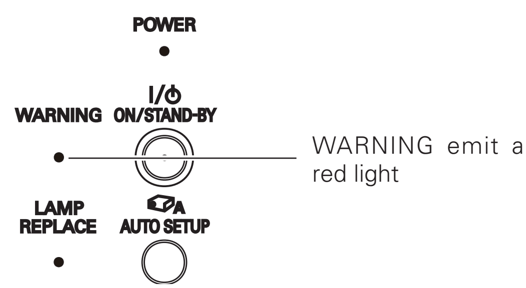
Possible causes
- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service station.

CAUTION
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Top Control

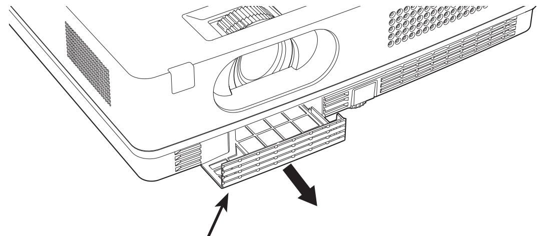


Maintenance

Cleaning the Filters

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon appears on the screen, clean the filters immediately. Clean the filters by following the steps below.

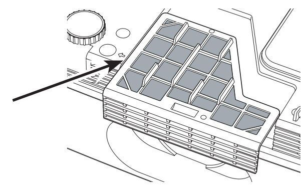
1. Turn off the projector, and unplug the AC power cord from the AC outlet.
2. Remove the front air filter by pulling the latch horizontally.
   Remove the back air filter by pulling the latch horizontally and then remove it leftward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry it well. Replace the air filters properly. Make sure that the air filters are fully inserted.

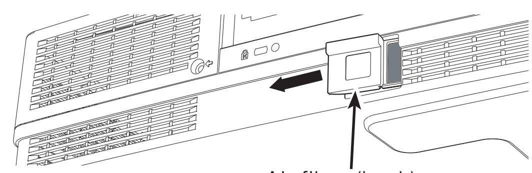


Air filter (front)

Pull horizontally and remove.

✔ **Note**:
Please be sure to fit this edge when inserting this filter.





Air filter (back)

Pull horizontally and then remove it leftward.

CAUTION
Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.

RECOMMENDATION

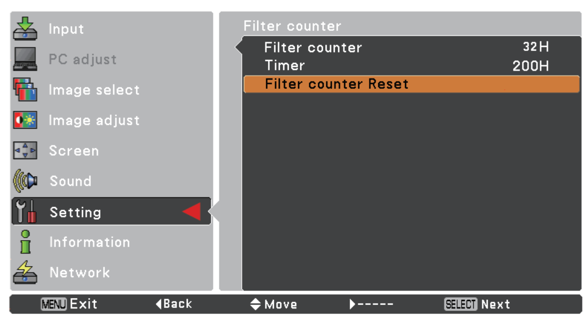
We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

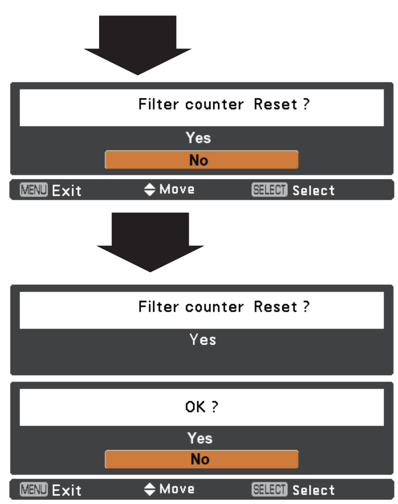
Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filters.

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to select **Setting** and then press the Point or SELECT button.
2. Use the Point buttons to select **Filter counter** and then press the Point or the SELECT button. Use the Point buttons to select **Filter counter reset** and then press the SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.
3. Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

Filter counter





Filter counter Reset? appears.

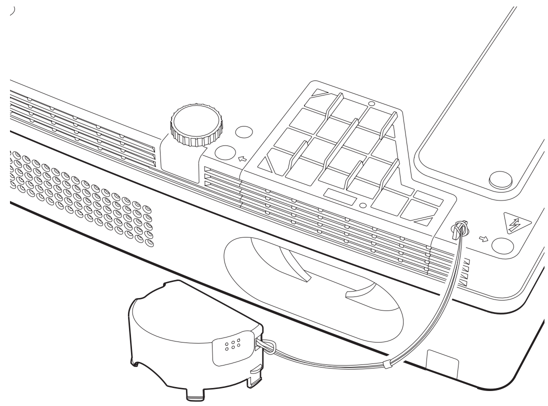
Select **Yes**, then another confirmation box appears.

Select **Yes** again to reset the Filter counter.

Attaching the Lens Cap

When moving this projector or while not using it over an extended period of time, replace the lens cap.

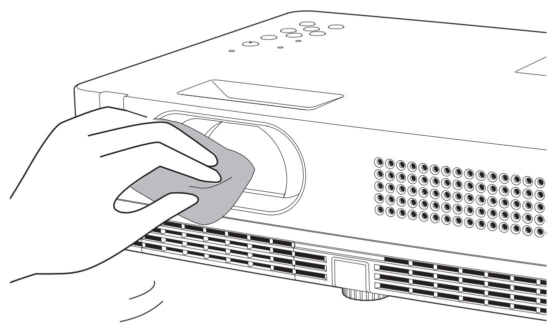
Attach the lens cap according to the following procedures.



1. Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place.
2. To pass the other end of the string into the hole on the bottom of the projector and pull at it.

Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

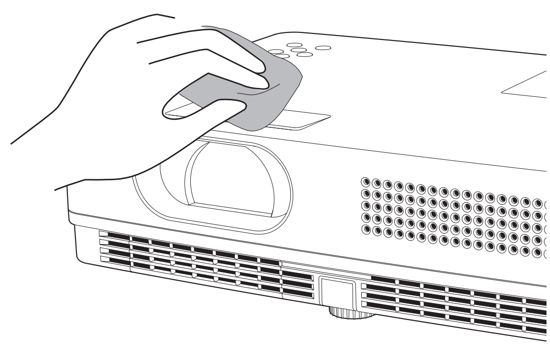


Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.



Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.

Lamp replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Follow these steps to replace the lamp.

1 Unplug the AC power cord. Let the projector cool for at least 45 minutes.

2 Loosen the screw and open the lamp cover.

3 Loosen the three (3) screws that secure the lamp. Lift the lamp out of the projector by using the handles.

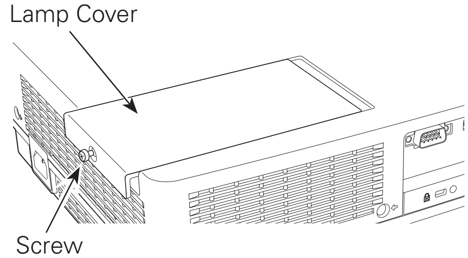
4 Replace the lamp with a new one and secure the three (3) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.

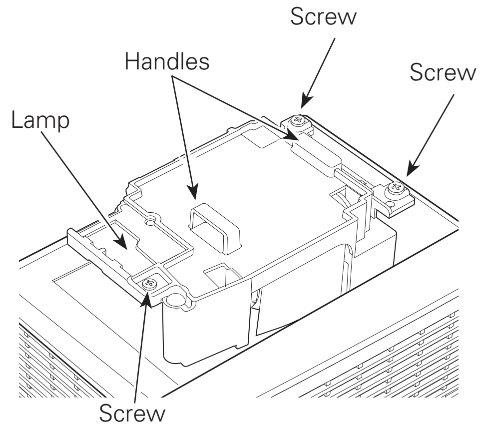
5 Connect the AC power cord to the projector and turn on the projector.

6 Reset the Lamp Replace Counter.
Refer to the next page for details.

ORDER REPLACEMENT LAMP

Type No.	**POA-LMP142**
Service Parts No.	**610 349 7518**





**WARNING : TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.**

CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

CAUTION

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken.
If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and shorten lamp life. We recommend cleaning the air filter after the projection lamp is replaced.

Refer to "Air Filter Cleaning".

Resetting the Lamp Counter

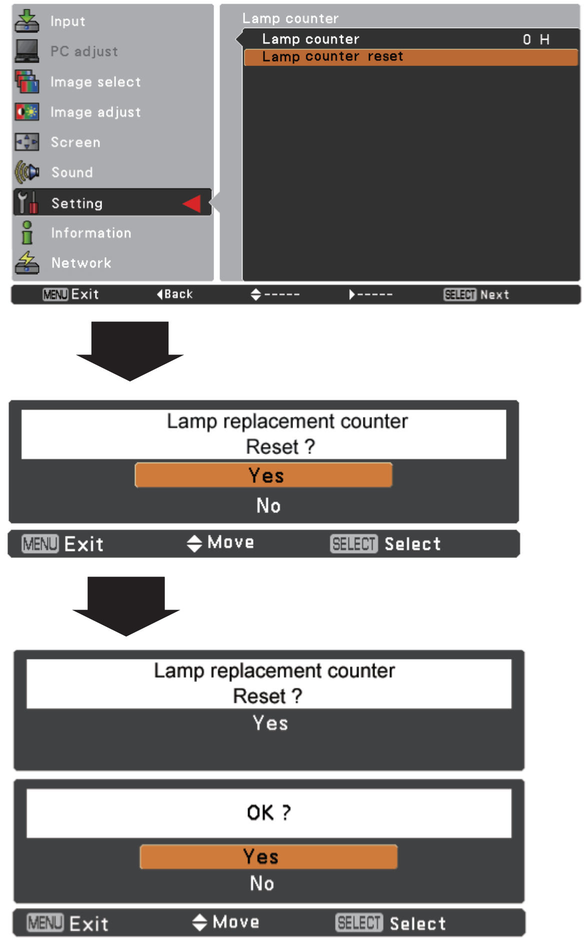
Be sure to reset the Lamp replacement counter after the lamp is replaced.

Press the Point ▲▼ buttons to choose the Lamp counter function and then press the Point ▶ or the SELECT button to access the submenu items.

Lamp counter................This item shows the total accumulated time of the lamp usage.

Lamp counter reset.......Press the the SELECT button to choose **Lamp counter reset.** Select **Yes** in the confirmation box if you want to reset the lamp counter, and then choose **Yes** in the second confirmation box to reset lamp counter.

Lamp counter reset



How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 6,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

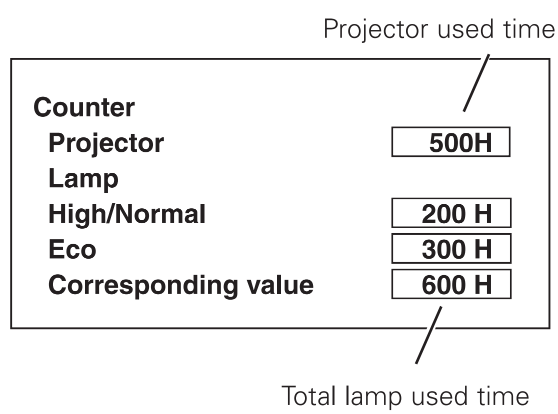
Total lamp used time = **T**eco + **T**high/normal x 1.5

Teco: used time in the Eco mode
Thigh/normal : used time in the Normal mode and High mode

You can check the lamp used time following to the below procedure.

1 Press and hold the **ON/STAND-BY** button on the projector or on the remote control for more than 20 seconds.

2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: “1234”
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. Initial code: “4321”

Resetting procedure

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button, connect the AC power cord into an AC outlet again.
3. Keep pressing the **SELECT** button and then press the **ON/STAND-BY** button.
4. Release the **ON STAND-BY** button first and then release the **SELECT** button.
   - The PIN code lock and Logo PIN code lock will be reset as the initial PIN code at the factory and the key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Standby Mode Notice

This projector provides 2 types of standby mode, Eco standby and Network standby. According to the standby mode "Eco" or "Network", several functions are restricted as shown in the table below. To change the standby mode, use the projector's menu "Setting".

Network...... Supply the power to the network function even after turning off the projector. You can turn on/ off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

Eco............ Select “Eco” when you do not use the projector via network. The projector’s network function will stop when turning off the projector.

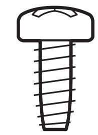
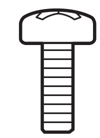
When "Eco" is selected, several functions will be restricted.

Restricted Function in the standby mode

Function	Eco	Network
Serial command control	--	✔
Network Function	--	✔
Monitor Out	--	✔
Audio Out	--	--
Direct on	✔	✔

Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top, R/C Board removal

1. Loose screw A (M3x8) to remove the Lamp Cover.
2. Remove 4 screws B (M3x8) and 2 screws C(T3x10) to remove the Cabinet top.
3. Remove the Control Buttons and Dec Inlay LED.
4. Remove 2 screws D (T3x8) to remove the Dec Ring.
5. Remove the R/C Board.

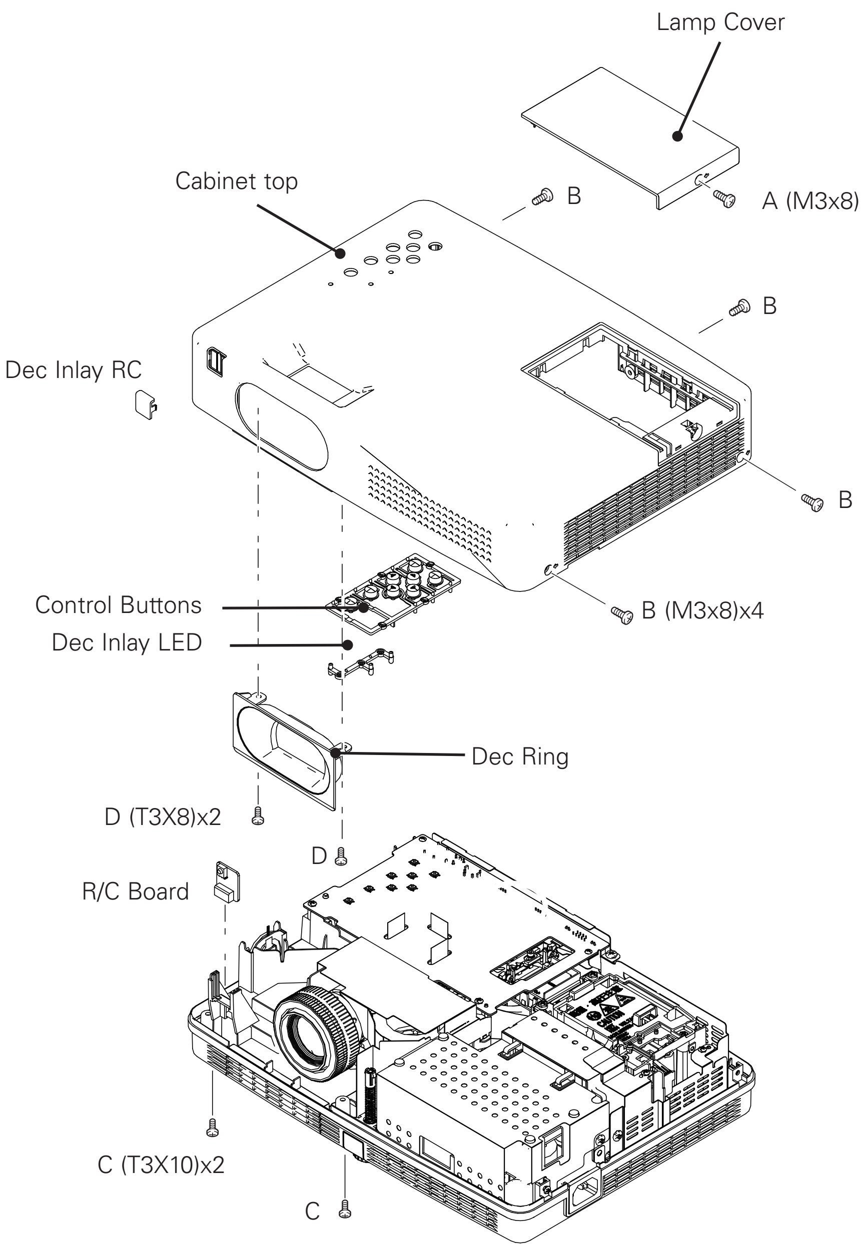


Fig.1

2 Main Board, AV Panel, Audio Jack and Speaker (SP901) removal

1. Remove 5 screws A (M3x8) and 3 screws B(M4x6) to remove the Right connect shield, Lamp back shield and Right shield.
2. Remove 2 screws C (T3x8) to remove the Main Board.
3. Release the hooks and screw D (M2x4) to remove the AV Panel.
4. Remove 2 screws E(T2.5x6) to remove the Audio Jack board.
5. Remove the Speaker (SP901).

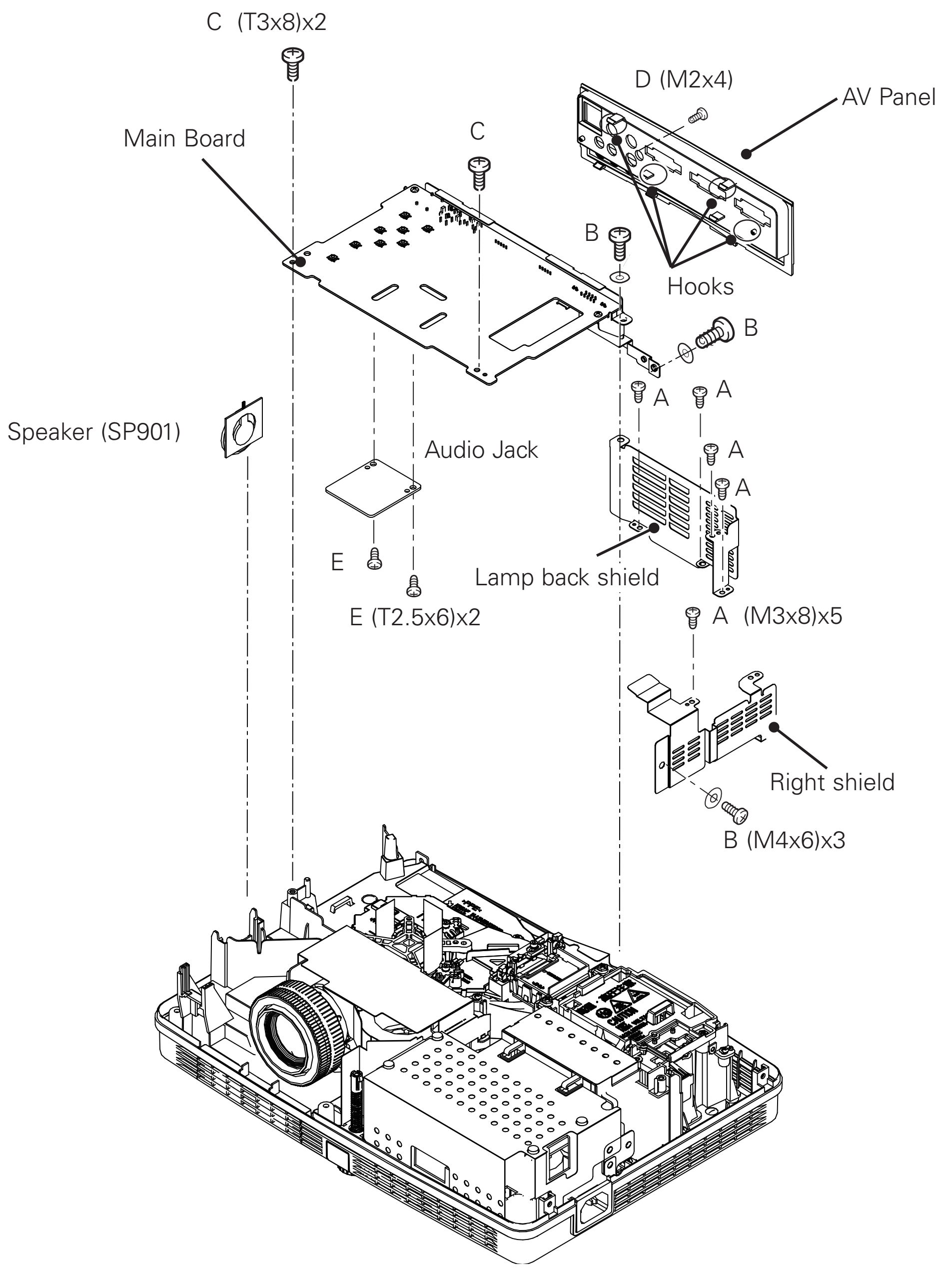
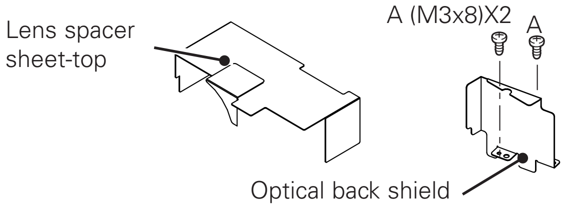


Fig.2

3 Optical Unit, Lamp A'ssy and SW902 removal

1. Remove the Lens spacer sheet-top. Remove 2 screws A(M3x8) to remove the Optical back shield.
2. Remove 3 screws B(M3x7) to remove the Lamp A'ssy. Remove 4 screws C(T3x10) to remove the Optical Unit, Remove 4 screws D(T3x8) and 2 screws E(T3x8) to remove the Lamp holder and Ballast socket.
3. Remove the lamp cover switch(SW902).



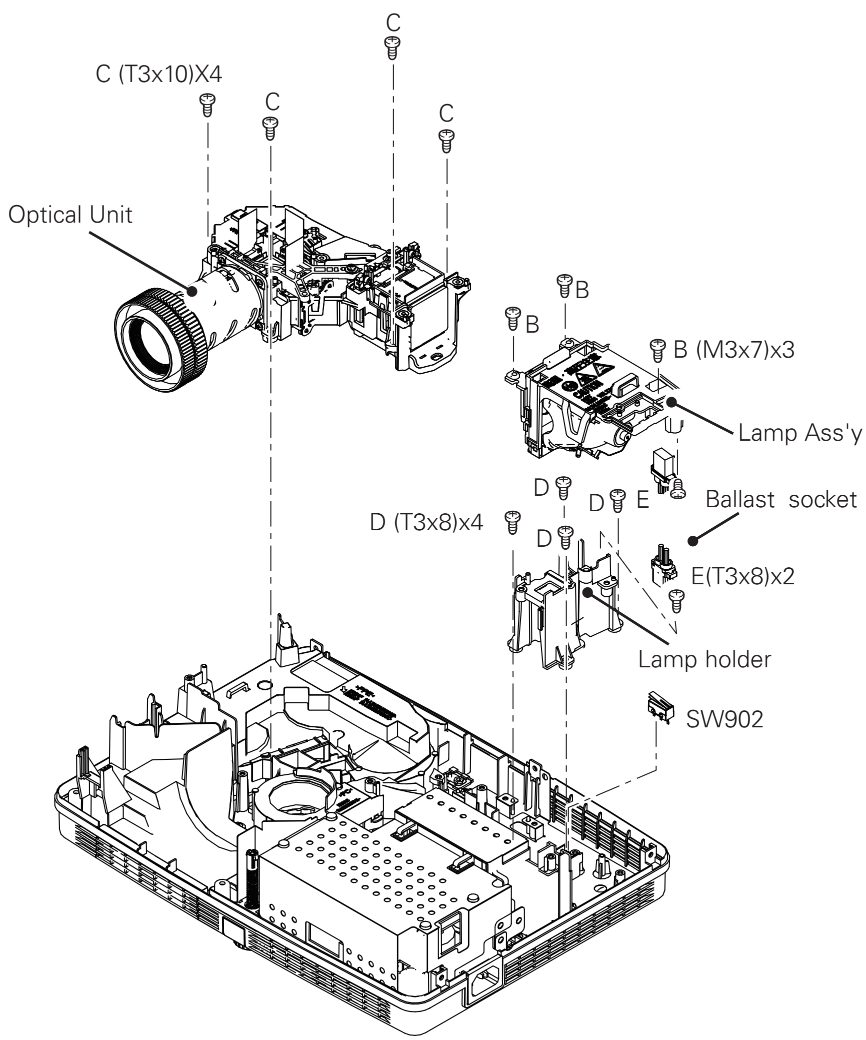


Fig.3

4 Mounting Duct and fans(FN001, FN003, FN004, FN005) removal

1. Remove the Lens spacer sheet-left, remove 3 screws A(T3x8) and 2 screw B(T3x12) to remove the Lamp in fan duct top and bottom.
2. Remove 7 screws C(T3X8) and 3 screws D(T3x12) to remove the Mounting duct top.
3. Remove 3 screws E(T3x12) to remove the fans(FN003, FN004 and FN005).

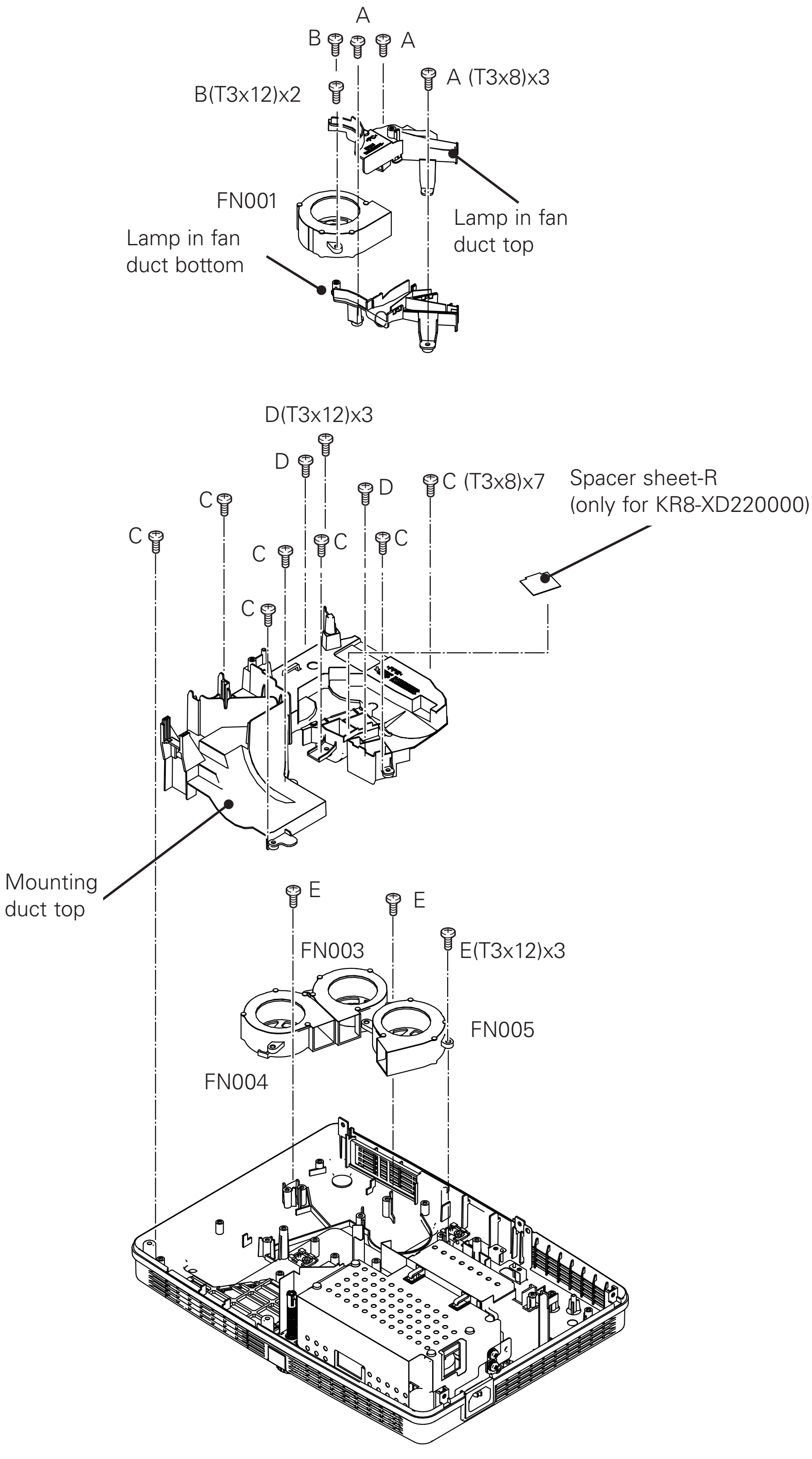


Fig.4

5 Power board, Fan(FN002) and Filter removal

1. Remove the Power board spacer sheet.
2. Remove 2 screws A(M3x8) and 2 screws B(M4x6) to remove the Power shield.
3. Remove the thermal switch(SW601). Remove 6 screws C(T3x8) to remove the Power board holder and the fan(FN002).
4. Remove screw D(T3x8) to remove the Power board.
5. Remove 3 screws E(T3x8) to remove the Lamp Ballast.
6. Remove the Panel net front and Panel net back.

Note:
Please pay attention to the install direction of SW601, the side with text facing to the projector back.

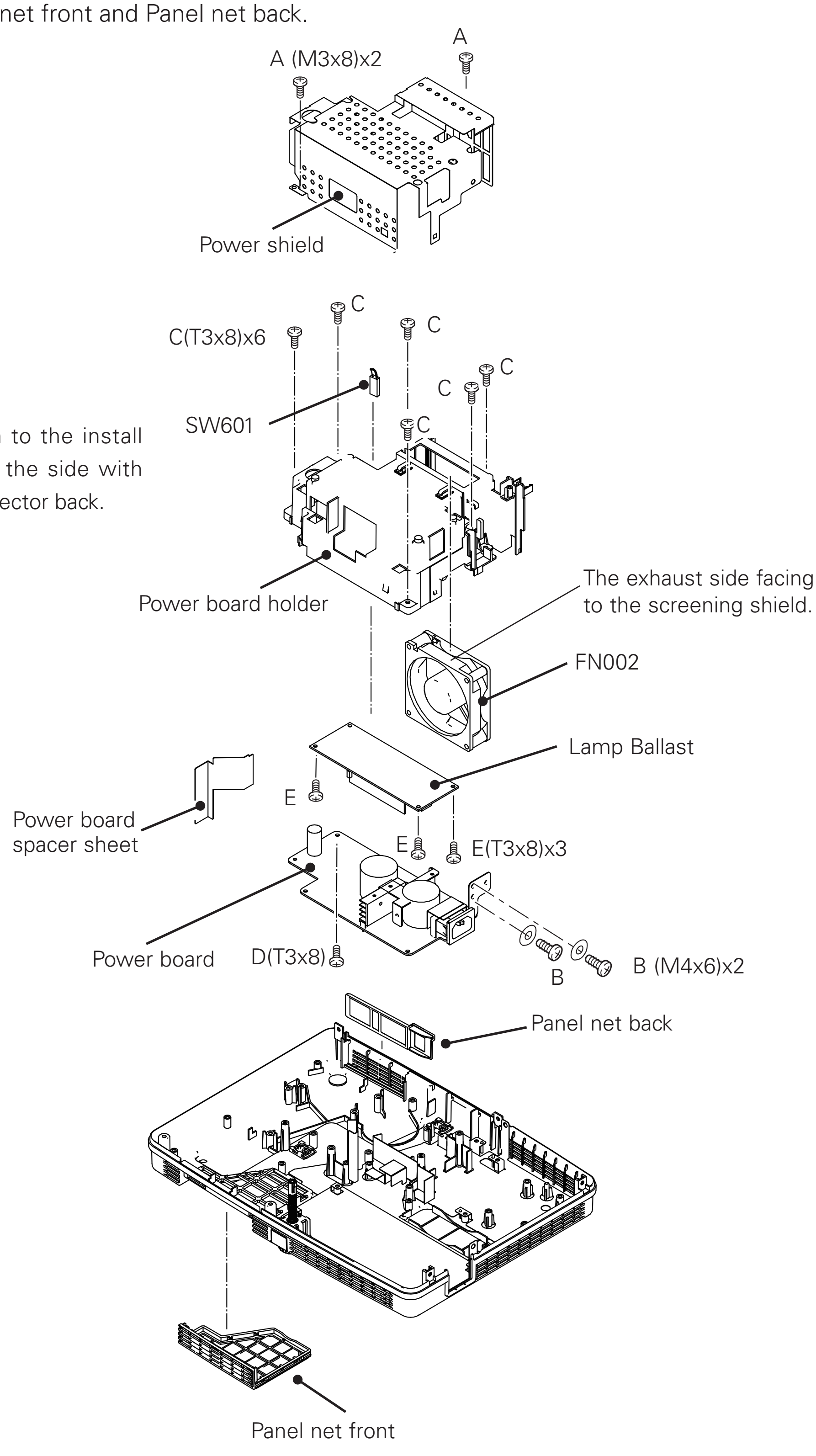


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top and Main Board following to the "Mechanical Disassembly".
Disassembly requires a 2.0mm hex wrench and a screwdriver.

1 Projection lens disassembly

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

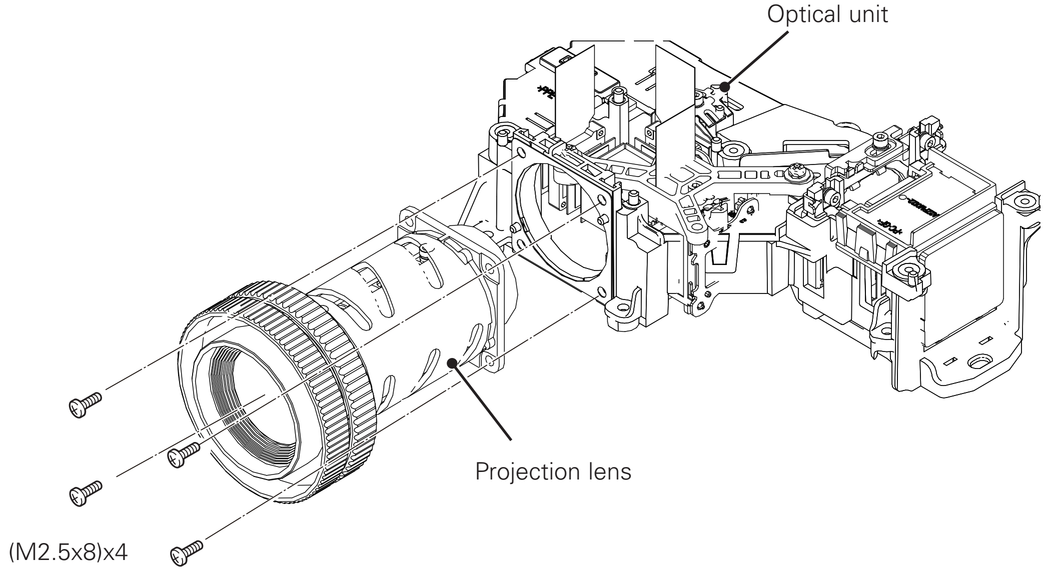


Fig.1

2 Condenser Out lens disassembly

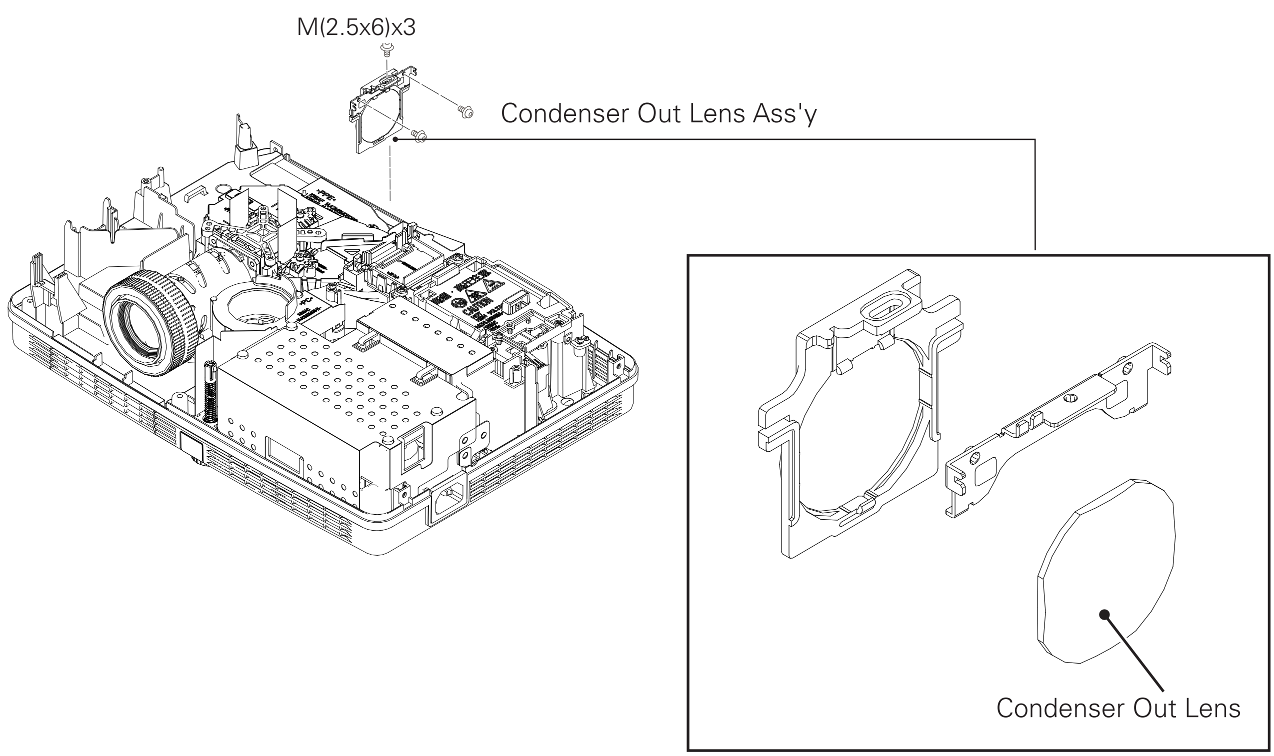


Fig.2

3 Integrator lens-in disassembly

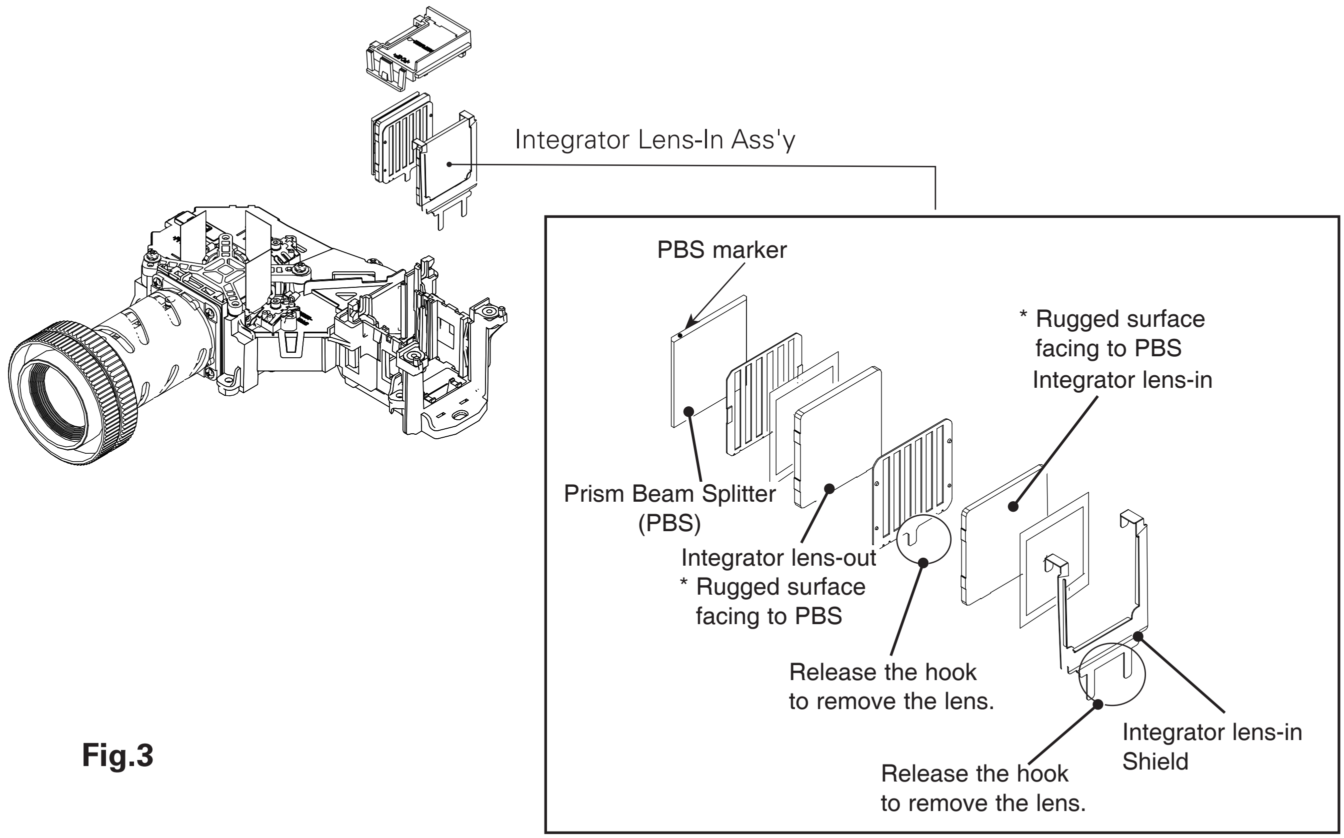


Fig.3

4 Condenser Lens Ass'y disassembly (For KR8-XD220000)

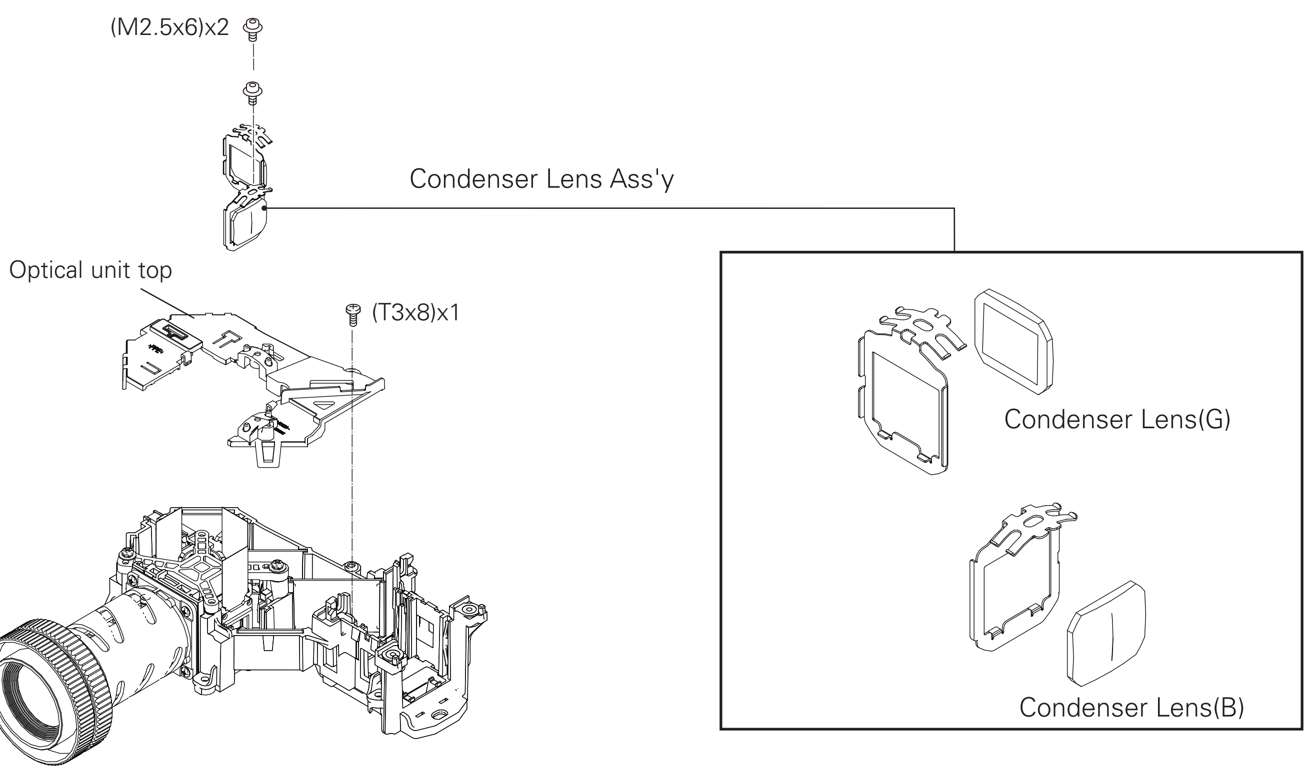


Fig.4

4 Condenser Lens Ass'y disassembly (For KS8-XD260000)

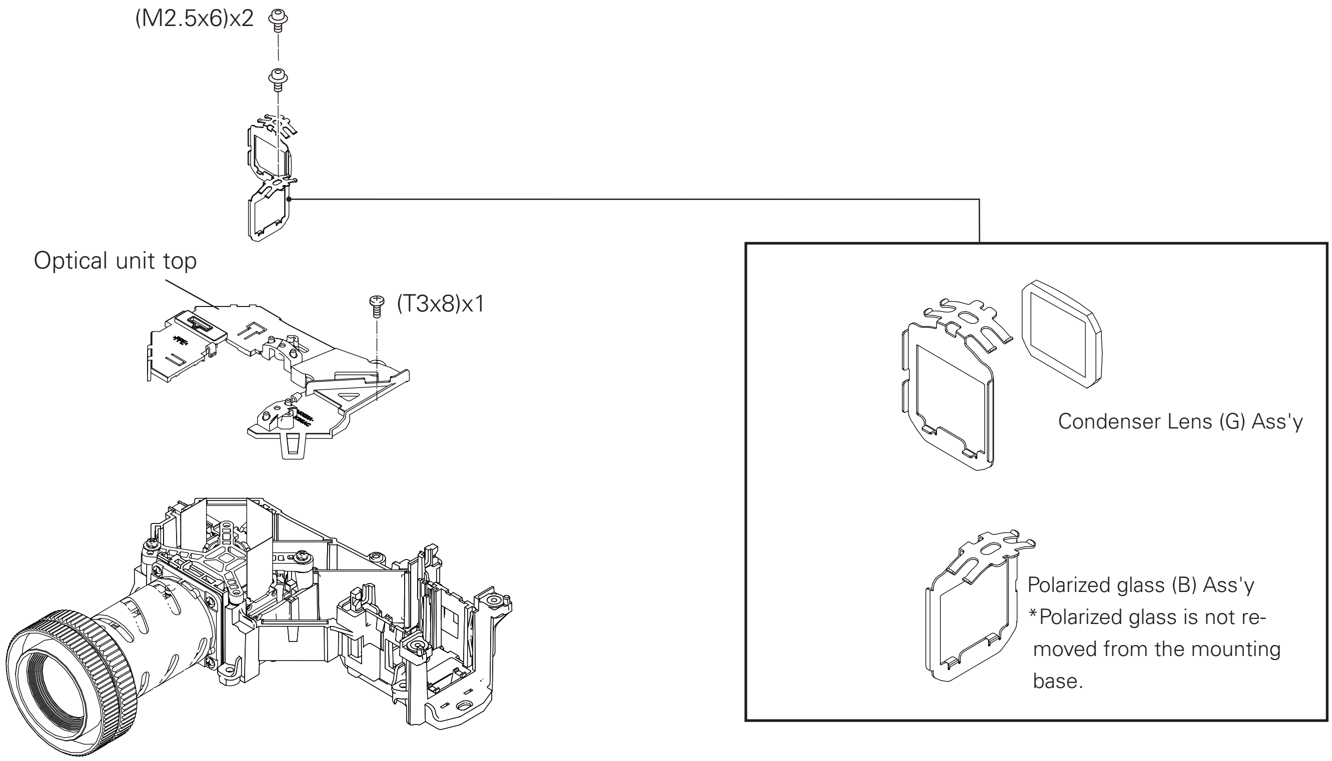


Fig.4

5 Relay Out lens disassembly

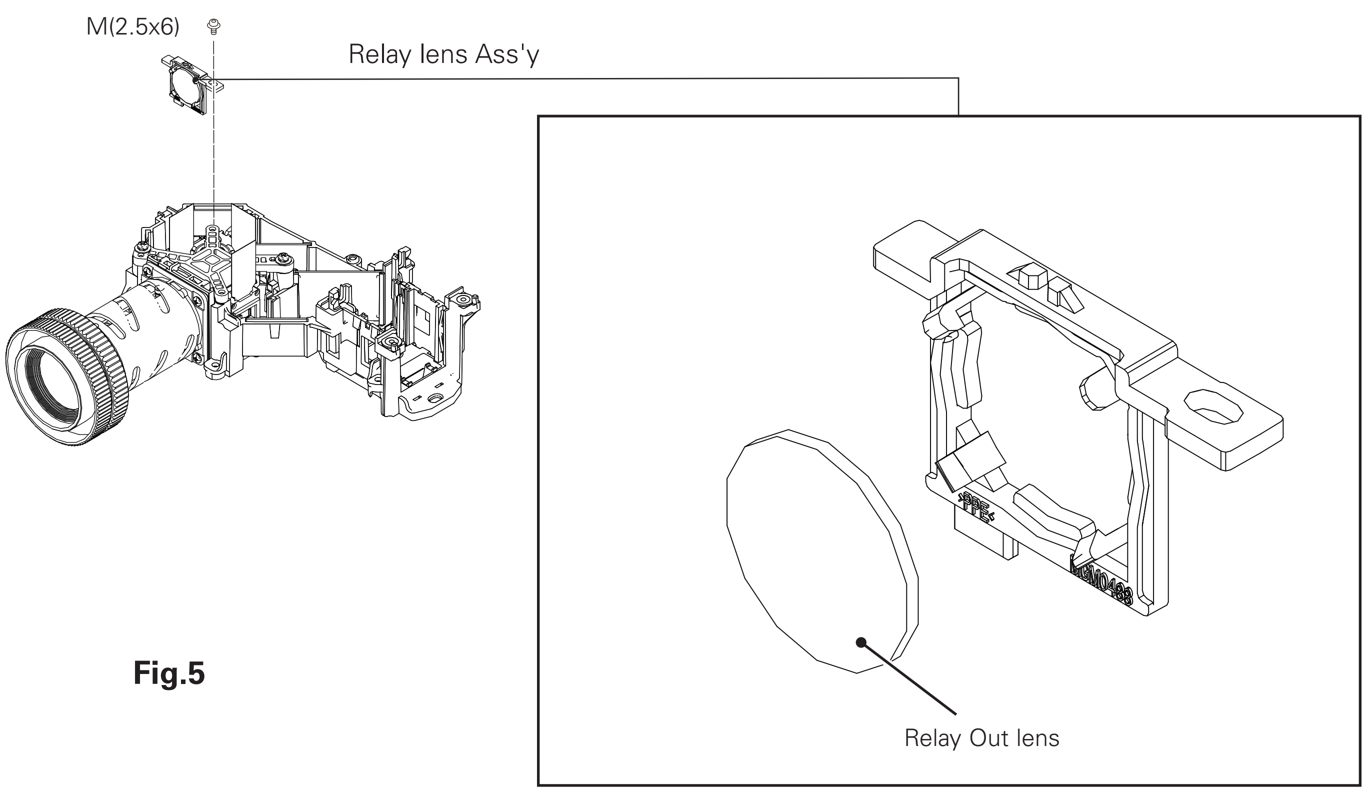


Fig.5

6 LCD Panel/Prism Ass’y removal

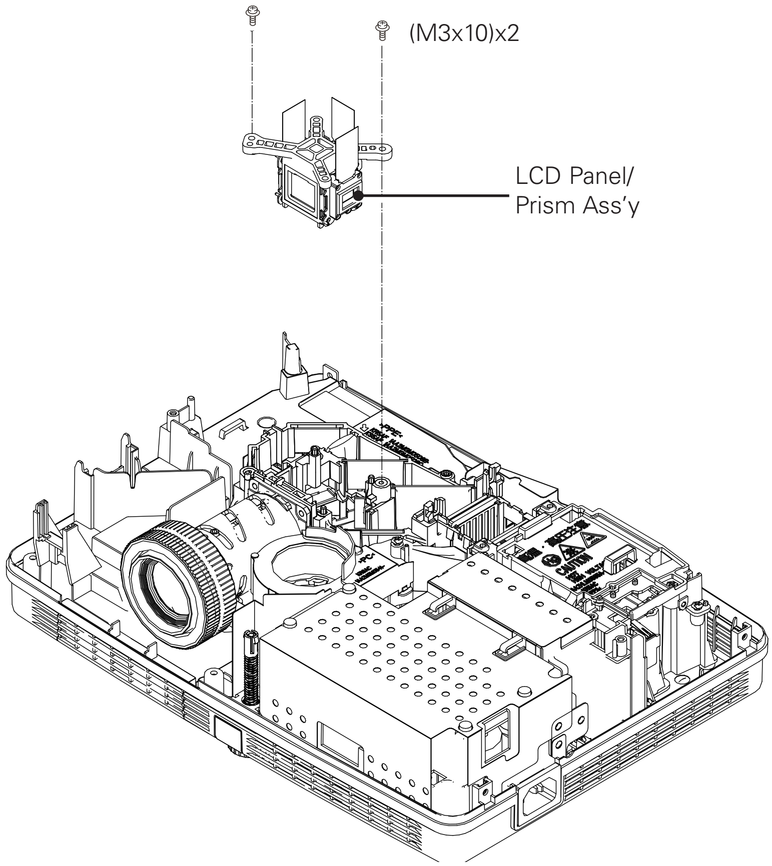


Fig.6-1

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement
LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass’y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass’y at once.
When replacing the LCD Panel/Prism ass'y, take the optical and electrical adjustments following to the chapter "Adjustment".

Panel Type Check

There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.
When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

How to check the type of LCDPanel/Prism Ass'y
Check the printed number on the flat cable of the G-LCD Panel.

L-Type LCD Panel/Prism Ass'y **R-Type LCD Panel/Prism Ass'y**

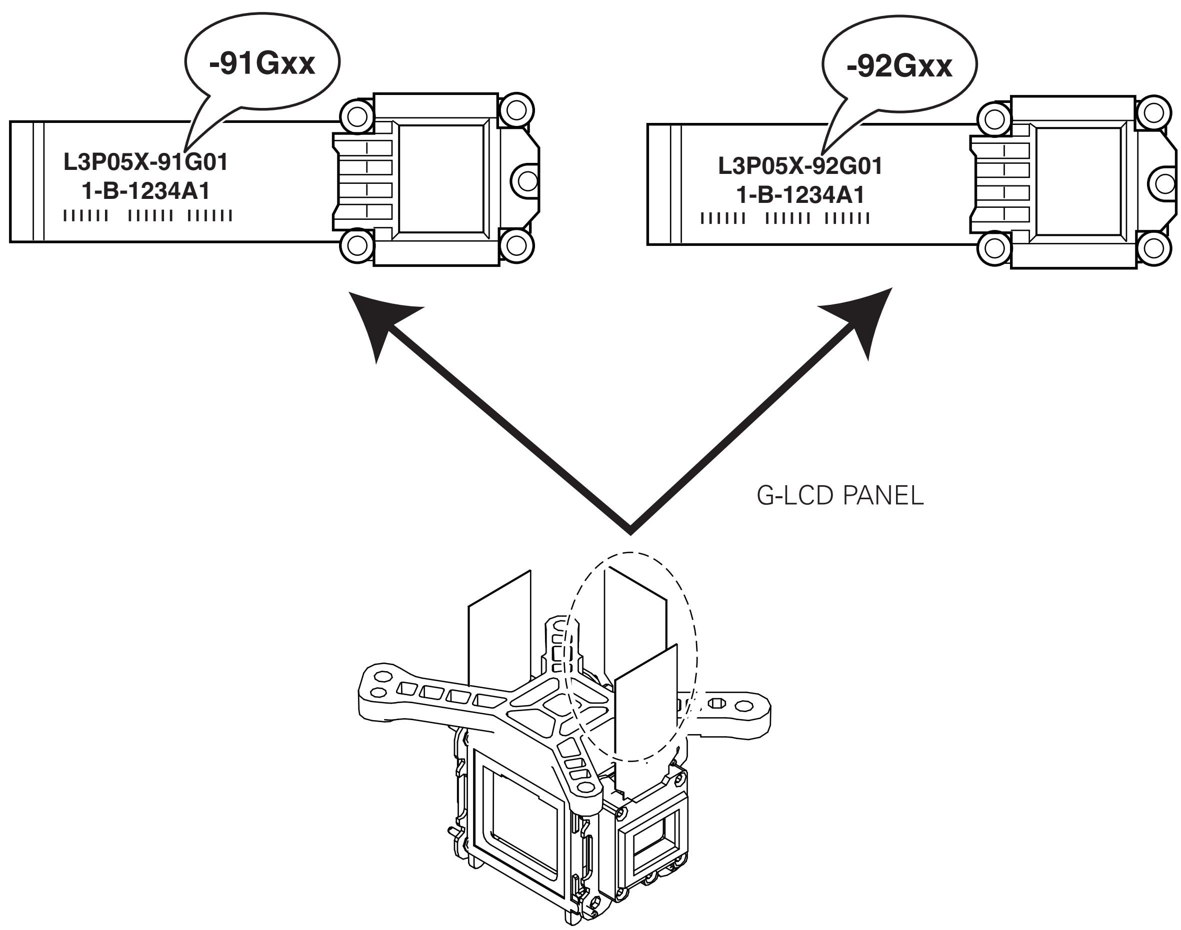


Fig.6-2

7 Locations and Directions(For KR8-XD220000)

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Dichroic mirror (B)
2	Dichroic mirror (G)
3	Relay lens (IN)
4	Mirror (R)
5	Condenser lens (R)
6	Mirror (B)

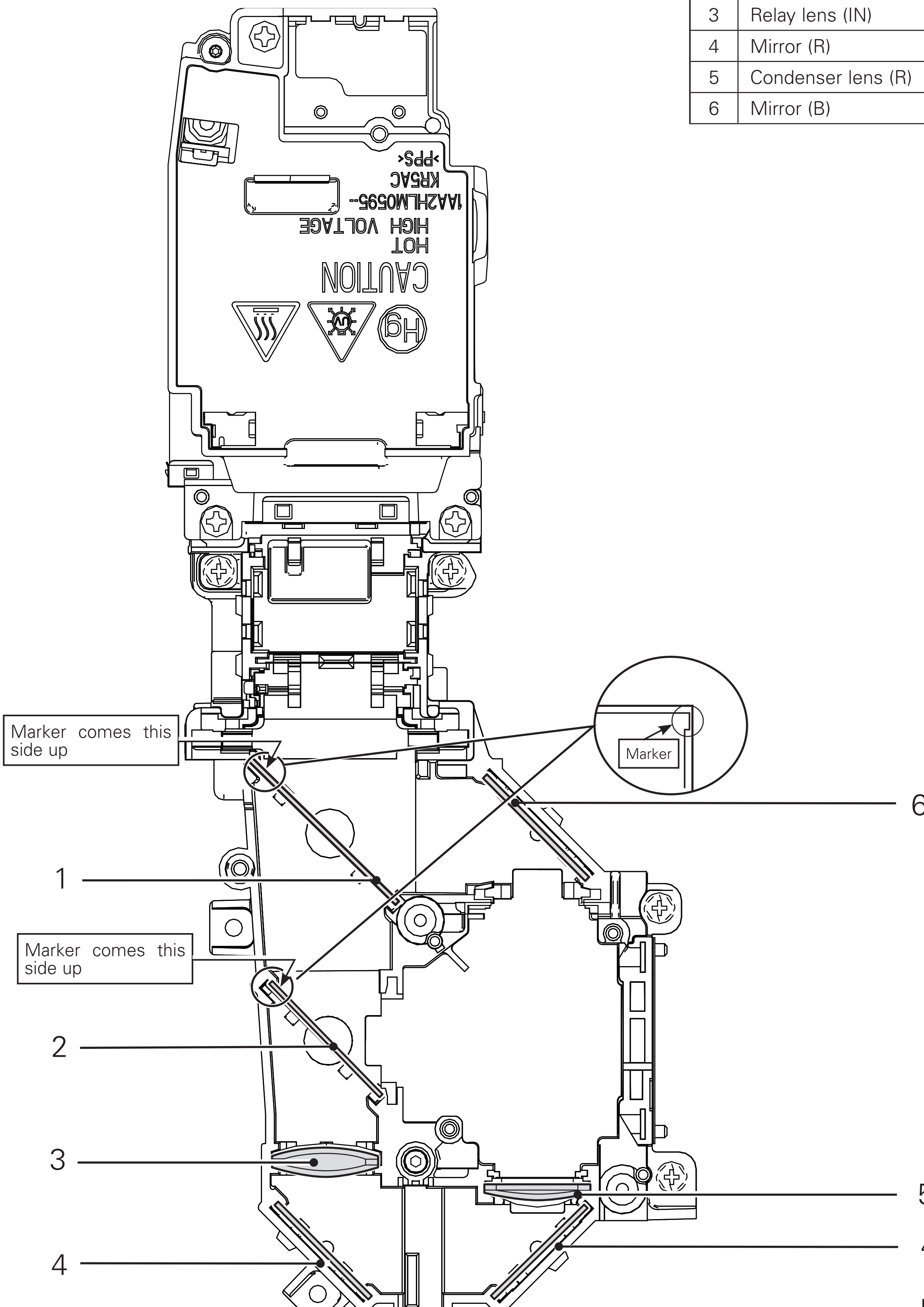


Fig.7

7 Locations and Directions(For KS8-XD260000)

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Dichroic mirror (B)
2	Dichroic mirror (G)
3	Relay lens (IN)
4	Mirror (R)
5	Condenser lens (R)
6	Polarized glass (IN/R)
7	Condenser lens (B)
8	Mirror (B)

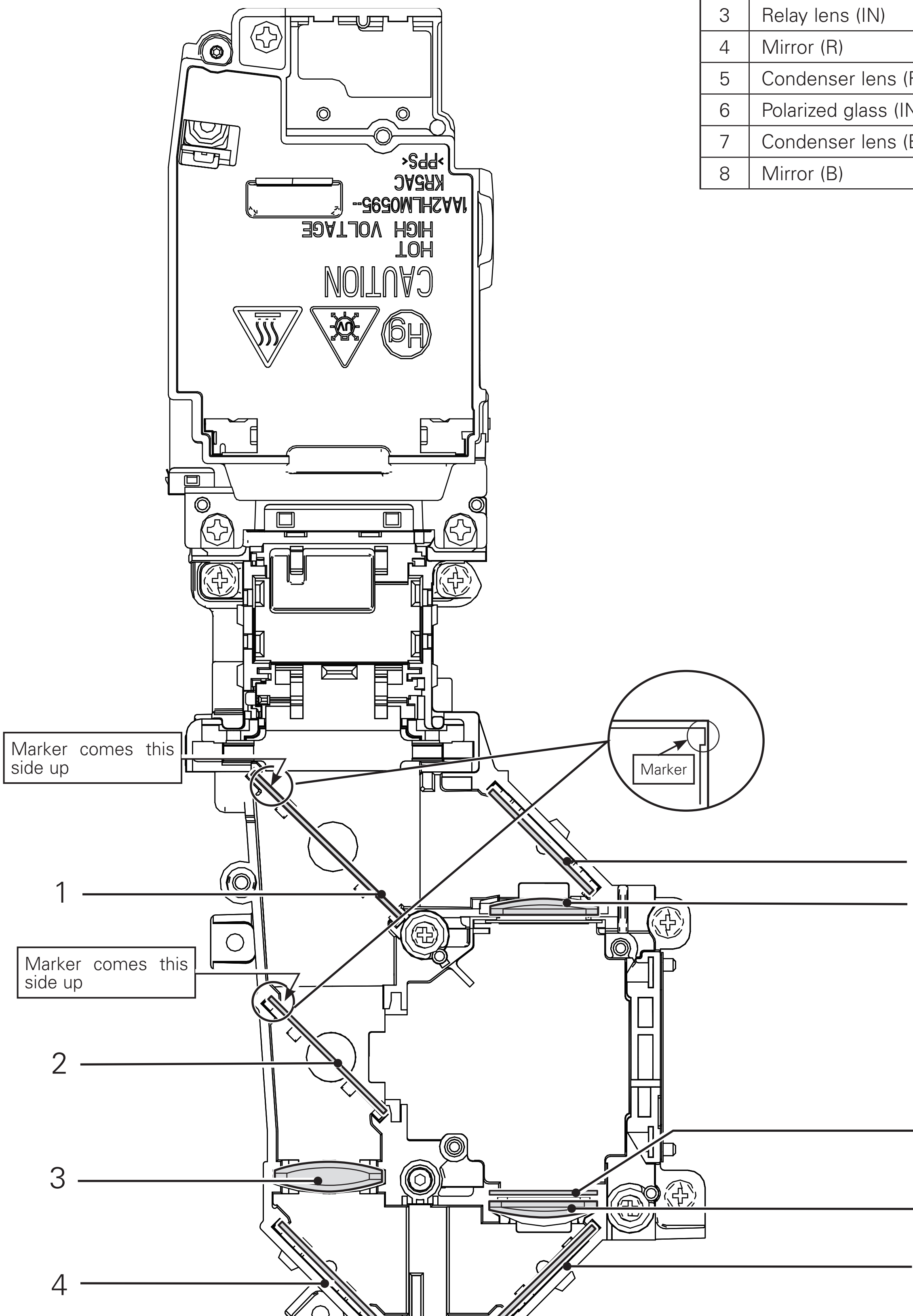


Fig.7

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Condenser Lens (OUT)	Relay Lens (OUT)	Condensor Glass		Polarized Glass (PLC-XD2200)	Power Board	Main Board
					G	B (PLC-XD2600)	B		
Optical Adjustments	Contrast Adjustment								
	G-Contrast adjustment	❍			●				
	B-Contrast adjustment	❍				●	●		
	Condenser lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Panel type check and setting	●							●
	Fan control adjustment							●	●
	Black Level adjustment								●
	Auto calibration adjustment [PC]								●
	Auto calibration adjustment [Component]								●
	Auto calibration adjustment [Video]								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	❍							❍
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	❍							❍
	Keystone offset adjustment								●
	Color shading correction adjustment	❍							❍

Caution:
Don't unplug the AC Cord without pressing the power button in the serving.

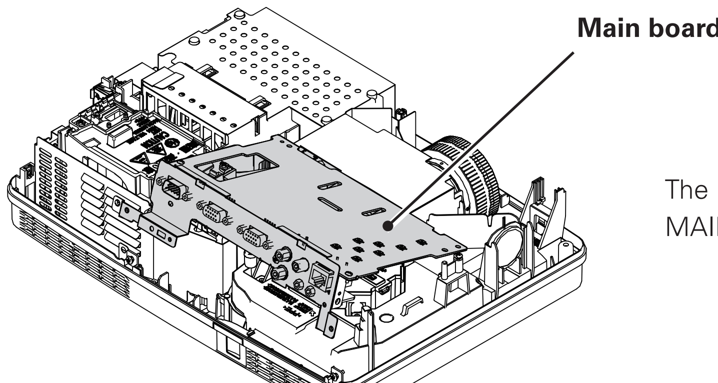
Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassembly". Remove the Main board and remove the AV panel. (Refer to Fig. 1)

Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust condenser lens (OUT) or Relay lens (OUT) adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

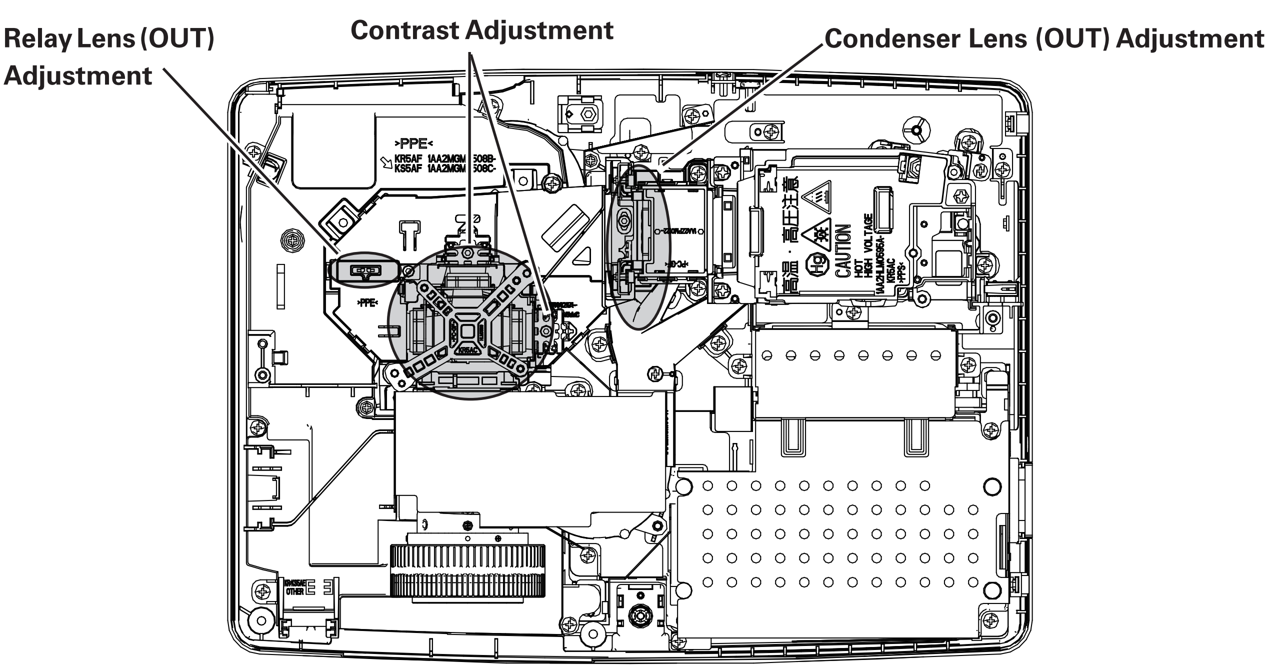
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes. DURING SERVICING



The AV panel is removed, and the MAIN board is lifted.

Fig. 1

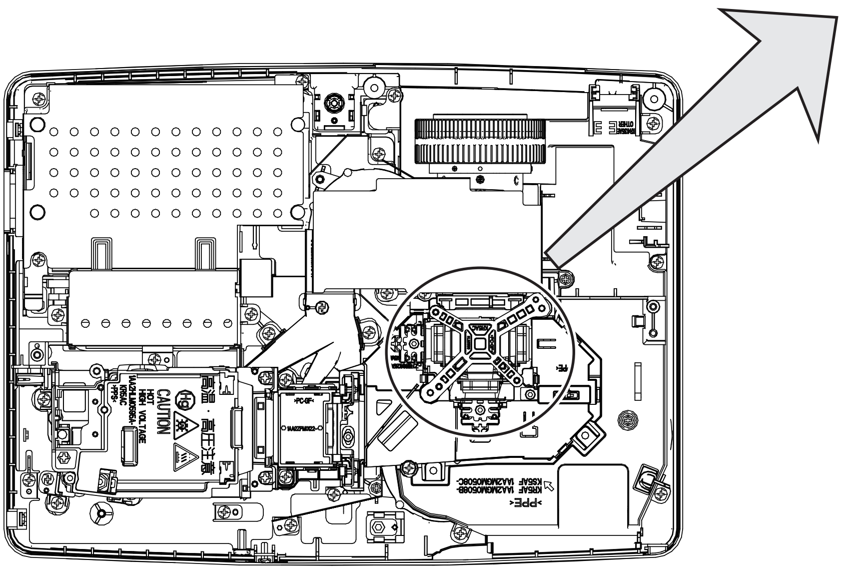


Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A (Fig.2)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.



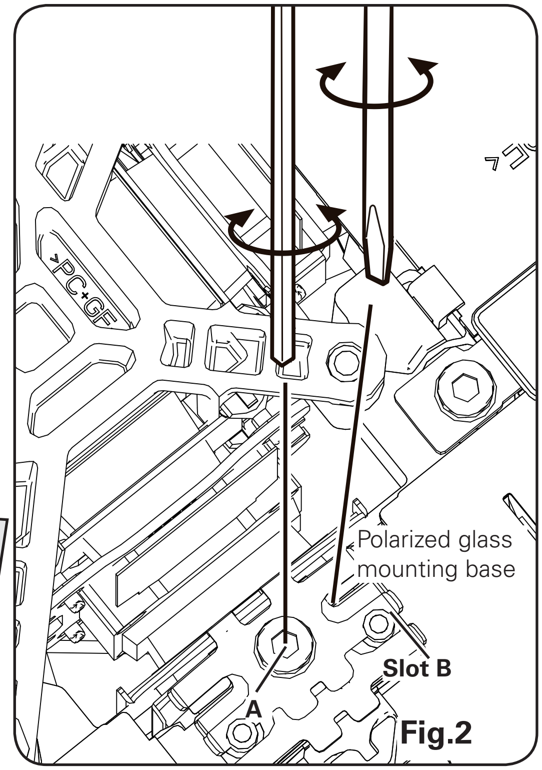


Fig.2

Condenser Out lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of condenser out lens assy to make color uniformity in white.
  1) If the shading appears on the left or right of the screen as shown in **Fig.3-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
  2) If the shading appears on the top or bottom of the screen as shown in **Fig.3-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the condenser out lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.

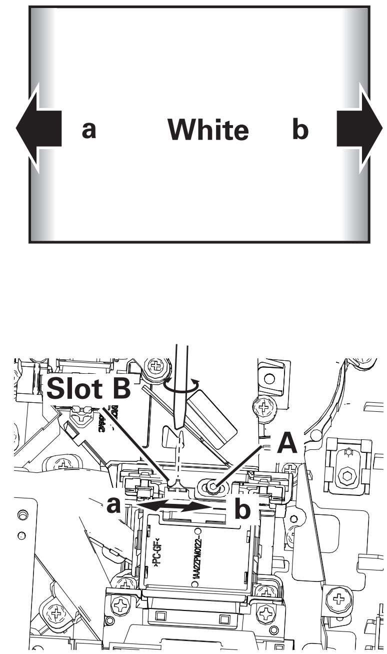


Fig.3-1
Moving of slot B

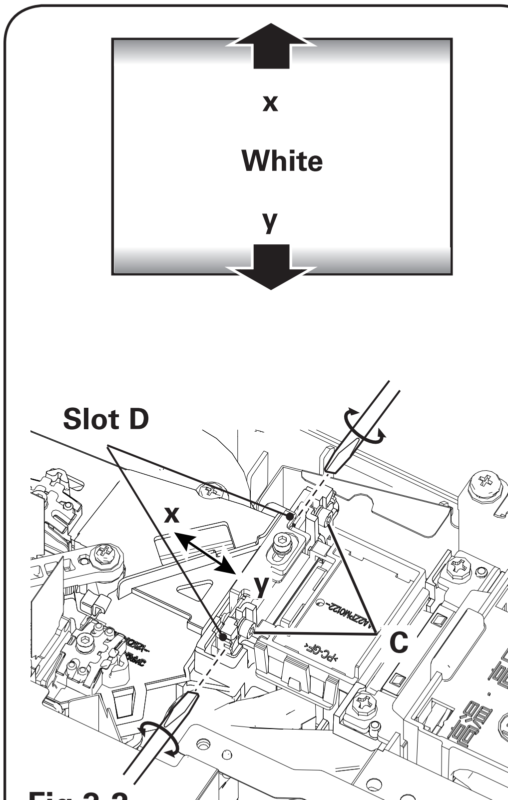
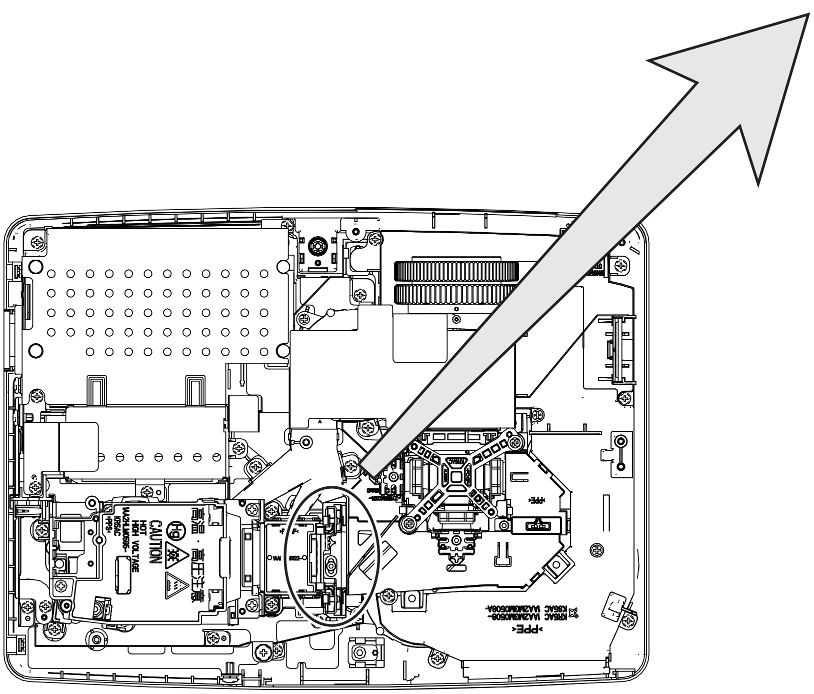
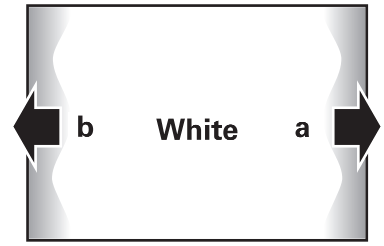


Fig.3-2
Moving of Slot D



Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A** by using a hex screwdriver, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.



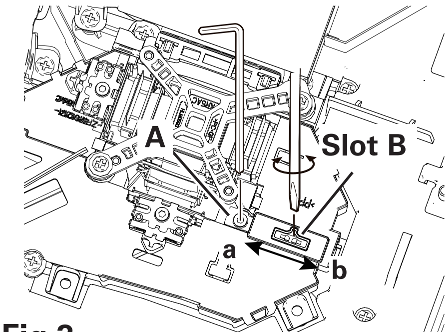
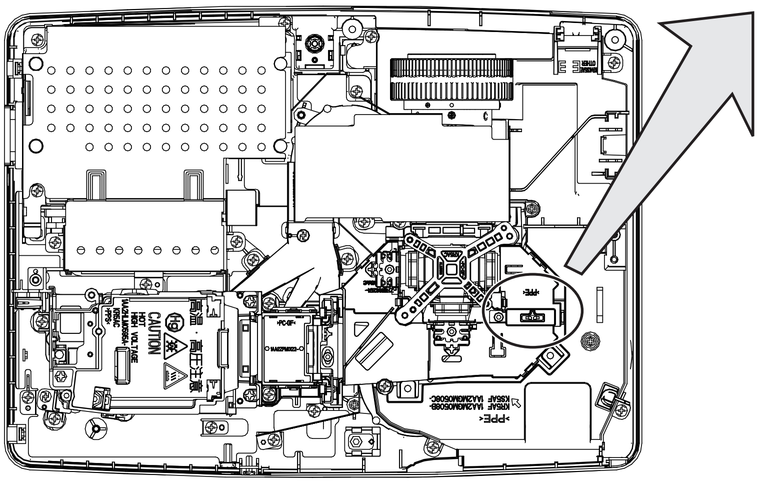


Fig.3
Moving of slot B



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

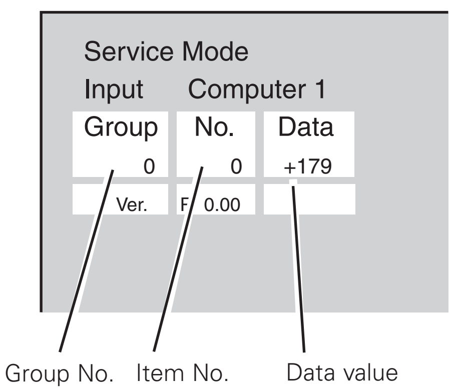
To enter the "Service Mode", press and hold the **MENU button** and **SELECT button** on the projector for more than 3 seconds or press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

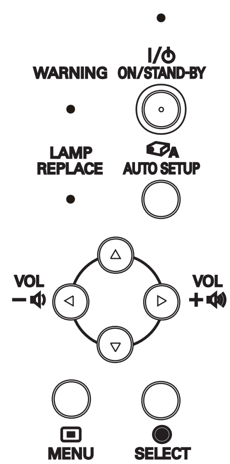
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.





Note on Main Board Replacement

● **Memory IC replacement (IC1371)**

Memory IC (IC1371) on the main board stores the user control value including lamp used time. When the main board is replaced with new one, the lamp used time will be reset. To keep the lamp use time, the memory IC should be replaced with the one on previous main board.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

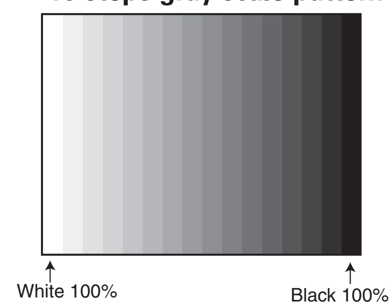
CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

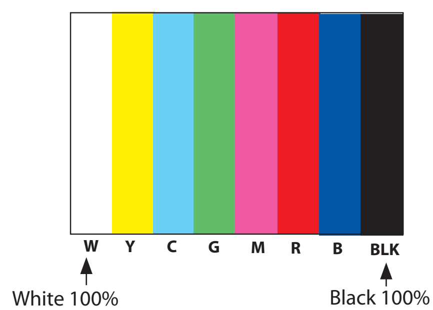
- Input signal
  - Video signal ....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
  - Component Video signal ......1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)
  - Computer signal...................0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Image control mode.........“STANDARD” mode unless otherwise noted.

Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

16 steps gray scale pattern



8 color 100% color bar



1. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select group no. "**290**", item no. "**0**". Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

Note:

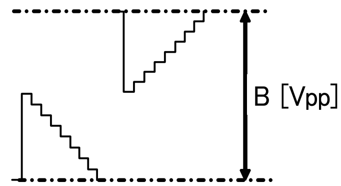
Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.

2. Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**250**", item no. "**0**" and change data value to adjust voltage to be **4.5 ±0.1V**.
3. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select item no. "**1**" and change data value to adjust voltage to be **13.8+0V/-0.1V**.
4. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**2**" and change data value to adjust voltage to be **4.5 ±0.1V**.
5. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**3**" and change data value to adjust voltage to be **13.8+0V/-0.1V**.
6. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**4**" and change data value to adjust voltage to be **4.5 ±0.1V**.
7. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**5**" and change data value to adjust voltage to be **13.8+0V/-0.15V**.

3 .Black Level Adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer 1 [RGB]** mode.
3. Select group no. "**101**", item no. "**16**" to adjust the voltage of **TP35G** to make the amplitude "**B[Vpp]**" to be **10.00 ±0.05V**.



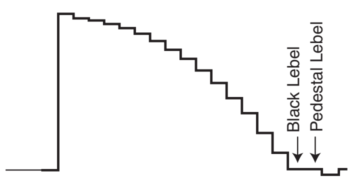
4. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

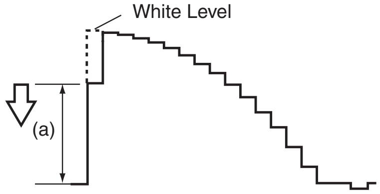
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



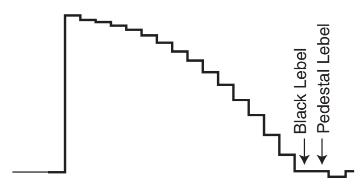
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer1 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

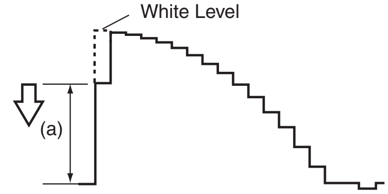
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



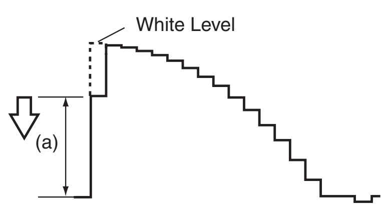
6. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



7. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no." **100**", item no." **92**" and change data value to" **2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no." **101**", item no." **1**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no." **0**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no." **2** and change data value to obtain the minimum flicker on the screen.
10. Select group no." **100**", item no." **92**" and change data value to" **0**" to reset the panel frequency.

8. 50% White adjustment [PC]

Equipment Luminance meter
Input mode Computer 1 (RGB)
Input signal 100%-white and 50%-gray computer signal

1. Enter the service mode.
2. Input the 100%-white computer signal and measure luminance on the screen with the luminance meter. It is **A** for the reading of luminance meter.
3. Change the signal source to the 50%-white computer signal.
4. Select group no. "**100**", item no. "**6**" and change the Data value to make the reading of luminance meter to be **A x 22%.**

9. White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

10. 50% White adjustment [Video]

Equipment Luminance meter
Input mode Video (Video)
Input signal 100%-white and 50%-gray composite video signal

1. Enter the service mode.
2. Input the 100%-white composite video signal and measure luminance on the screen with the luminance meter. It is **A** for the reading of luminance meter.
3. Change the signal source to the 50%-white composite video signal.
4. Select group no. "**100**", item no. "**6**" and change the Data value to make the reading of luminance meter to be **A x 22%.**

11. White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12. Keystone Offset adjustment

After replacing the G-sensor circuit (IC3850) or Memory IC (IC1371), readjust the Keystone Offset adjustment as follows.

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select group no." **102**", item no." **3**" and set data value from" **0**" to" **5**".
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the "OK" message will appear on the screen.
5. By pressing any button on the projector or the remote control, the "**OK**" message will disappear. (Data value of Group no." **102**", item no." **3**" will be back from" **5**" to" **0**" for initial value.)

Color Shading Correction adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

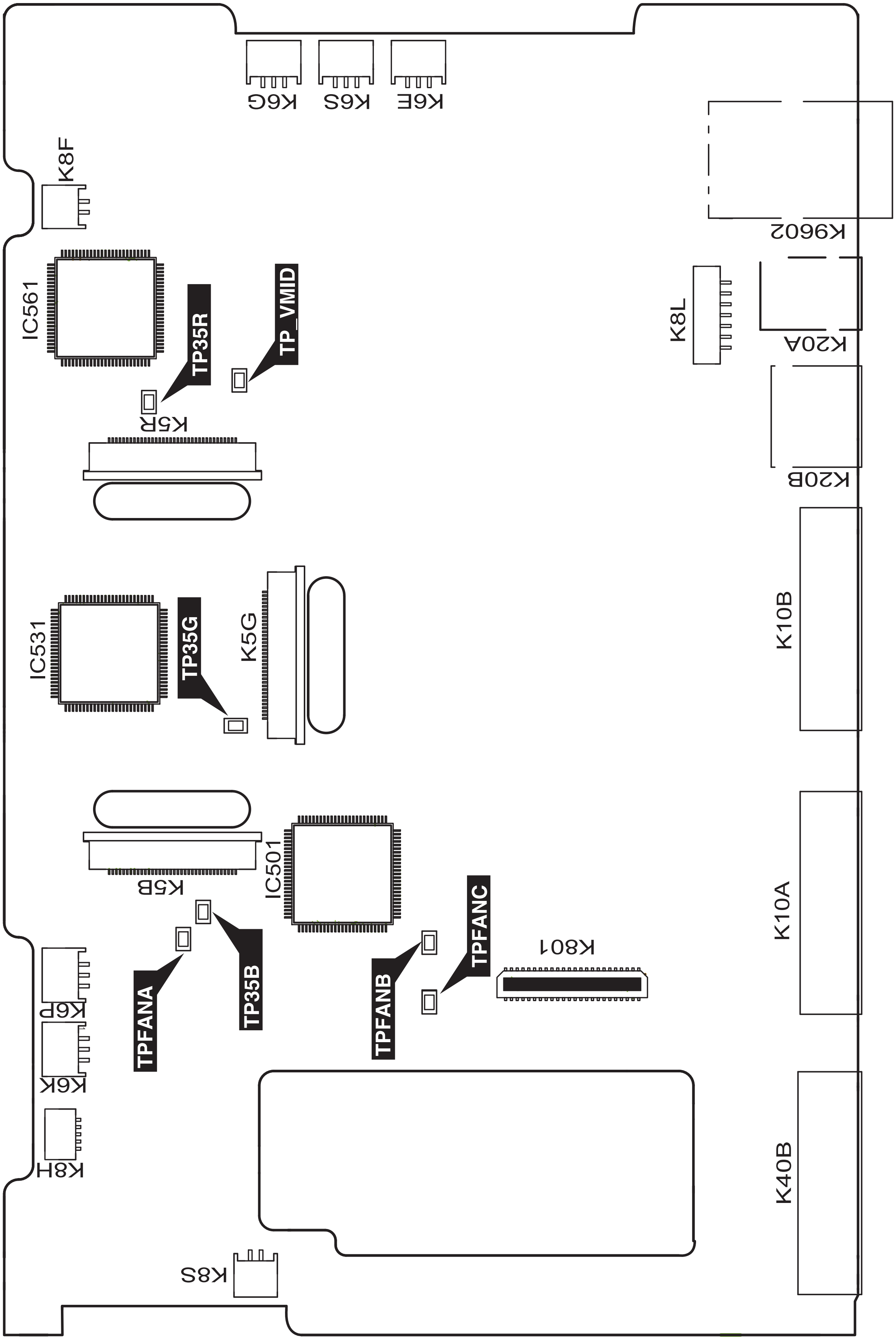
4-input patterns:
6% gray, 12.5% gray, 25% gray, 50% gray

The Color Shading Correction can be ordered with following service code.

COLOR SHADING CORRECTION Ver. 4.20	
Service Parts No.	610 343 5596

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with" ✻" are required to readjust following to the" Electrical adjustments". Other items should be used with the initial data value.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhould	6 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x700	0 - 9999	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video -Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting** Effective only for Progressive ON-L1 mode.				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	**Deinterlacer setting** Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting** Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)** Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	**Image**				
0	Center Contrast		512/496/512/500/512/512	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/512/512/512/512/512	0 - 1023	
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		140/140/140/140/140/140	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
10	Center WB Red		512/512/512/512/512/512	0-1023	Composite / S-Video / Component / Digital /D-RGB-Video /AnalogRGB / RGB-Video / HDCP-PC /HDCP-AV /SCART/ PJ-Net Setting Value= MENU Value - MENU Center Value) x Alpha / 10 + Center WB R/G/B [Max] 1023 [Min] 0
11	Center WB Green		512/512/512/512/512/512	0-1023	
12	Center WB Blue		512/512/512/512/512/512	0-1023	
13	Alpha WB Red		40/40/40/40/40/40	0-1023	
14	Alpha WB Green		40/40/40/40/40/40	0-1023	
15	Alpha WB Blue		40/40/40/40/40/40	0-1023	
Group 100	**Panel Service**				
0	G-SubGain		2048/2048/2048/2048/2020/2020/ 1860/1950/2048/2048/2048/2048/ 2020/2020/1860/1950/	0-4095	PCStandard/PCDynamic/PCReal/ PCBlackBoard/PCColBoaR/PCCol-BoaG/PCColBoaB/PCColBoaY/ AVStandard/AVDynamic/AVCinema/ AVBlackBoard/AVColBoaR/AVCol-BoaG/AVColBoaB/AVColBoaY
1	R-SubGain		2048/2048/2048/2048/1900/2048/ 2000/2048/2048/2048/2048/2048/ 1900/2048/2000/2048	0-4095	
2	B-SubGain		2048/2048/2048/2048/2048/1980/ 2048/2000/2048/2048/2048/2048/ 2048/1980/2048/2000	0-4095	
3	G-SubBright		0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0	0-4095	PCStandard/PCDynamic/PCReal/ PCBlackBoard/PCColBoaR/PCCol-BoaG/PCColBoaB/PCColBoaY/ AVStandard/AVDynamic/AVCinema/ AVBlackBoard/AVColBoaR/AVCol-BoaG/AVColBoaB/AVColBoaY/
4	R-SubBright		0/0/0/0/0/0/0/16/0/0/0/0/0/0/0/16	0-4095	
5	B-SubBright		0/0/0/0/16/0/16/0/0/0/0/0/16/0/16/0	0-4095	
6	G-GammaShift		0	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		0	0-4095	
8	B-GammaShift		0	0-4095	
9	G-ReferH		4088/4088	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		0/0	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		4088/4088	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		0/0	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		4088/4088	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		0/0	0-4095	Scan Direction (Front/Rear)
15	DXOutR		230	0-1023	
16	DXOutG		230	0-1023	
17	DXOutB		230	0-1023	
18	H_Change_Pos		27	0-255	
19	SH_Base		273	0-4095	
20	NRG_Pos		30	0-127	
21	NRG_Width		38	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
24	GammaCtrl		1	0-1	
25	REF_GatePos		15	0-1023	
26	REF_GateDur		147	0-1023	
27	R-BasePos		8	0-15	
28	G-BasePos		8	0-15	
29	B-BasePos		8	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		0	0-1023	(MIN<-->MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		8	0-31	
48	GhostG-Pos		8	0-31	
49	GhostB-Pos		8	0-31	
50	GhostR-Cent		0	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		2	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		2	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		2	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		256	0-1023	
79	R-Mid2		423	0-1023	
80	R-Mid1		568	0-1023	
81	R-Max		670	0-1023	
82	G-Min		256	0-1023	
83	G-Mid2		423	0-1023	
84	G-Mid1		568	0-1023	
85	G-Max		670	0-1023	
86	B-Min		256	0-1023	
87	B-Mid2		423	0-1023	
88	B-Mid1		568	0-1023	
89	B-Max		670	0-1023	
90	H-OutPos		106	0-2047	
91	OutAreaLv		2048	0-4095	
92	FlickerAdj		0	0/2	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		2045	0-2047	
95	FrontCTalkR-Start		128	0-255	
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		2045	0-2047	
98	FrontCTalkG-Start		126	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		2045	0-2047	
101	FrontCTalkB-Start		128	0-255	
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
154	R-DCOffset-P12		0/0	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0/0	0-2013	Scan Direction (Front/Rear)
156	G-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)

Group/ Item	Item Name	Function	Initial	Range	Note
162	G-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		0/0	0-1023	Scan Direction (Front/Rear)
168	B-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)
170	B-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
171	B-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		0/0	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		5	0-1023	
186	R_V_INPUT_SETP_512		2	0-1023	
187	R_V_INPUT_SETP_1024		3	0-1023	
188	R_V_INPUT_SETP_1536		2	0-1023	
189	R_V_INPUT_SETP_2048		0	0-1023	
190	R_V_INPUT_SETP_2560		1023	0-1023	
191	R_V_INPUT_SETP_3072		1	0-1023	
192	R_V_INPUT_SETP_3584		1	0-1023	
193	R_V_INPUT_SETP_4096		1020	0-1023	
194	G_V_INPUT_SETP_0		5	0-1023	
195	G_V_INPUT_SETP_512		2	0-1023	
196	G_V_INPUT_SETP_1024		3	0-1023	
197	G_V_INPUT_SETP_1536		2	0-1023	
198	G_V_INPUT_SETP_2048		0	0-1023	
199	G_V_INPUT_SETP_2560		1023	0-1023	
200	G_V_INPUT_SETP_3072		1	0-1023	
201	G_V_INPUT_SETP_3584		1	0-1023	
202	G_V_INPUT_SETP_4096		1020	0-1023	
203	B_V_INPUT_SETP_0		5	0-1023	
204	B_V_INPUT_SETP_512		2	0-1023	
205	B_V_INPUT_SETP_1024		3	0-1023	
206	B_V_INPUT_SETP_1536		2	0-1023	
207	B_V_INPUT_SETP_2048		0	0-1023	
208	B_V_INPUT_SETP_2560		1023	0-1023	
209	B_V_INPUT_SETP_3072		1	0-1023	
210	B_V_INPUT_SETP_3584		1	0-1023	
211	B_V_INPUT_SETP_4096		1020	0-1023	
212	ERPPOL		84	0-4095	
213	FRP_POS		32	0-255	
214	SWAP		1344	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FLLOW		1	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		16	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		3686/3522	0-4095	
230	Output limit G		3686/3274	0-4095	

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Group/ Item	Item Name	Function	Initial	Range	Note
231	Output limit B		2686/3274	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK COEF_G		1023	0-1023	
234	CROSSTALK COEF_B		1023	0-1023	
235	LCCON_ENABLE		0	0-1	
236	ENBY_L1		10	0-255	
237	ENBY_H1		674	0-1023	
238	ENBY_L2		10	0-255	
239	ENBY_H2		674	0-1023	
Group 101	**Panel Service(6170/62334)**				
0	R_LCCOM		160	0-255	
1	G_LCCOM		160	0255	
2	B-LCCOM		160	0-255	
3	R-ENBX-PW		5	0-15	
4	G-ENBX-PW		5	0-15	
5	B-ENBX-PW		5	0-15	
6	R-DXIN		48	0-127	
7	G-DXIN		48	0-127	
8	B-DXIN		48	0-127	
9	R-ENB11N		16	0-31	
10	G-ENBX11N		16	0-31	
11	B-ENBX11N		16	0-31	
12	Vmid		-	0-255	
13	R-Ref		-	0-255	
14	G-Ref		-	0-255	
15	G-Ref		-	0-255	
16	Vref		190		
Group 102	**Auto Keystone Setup Value**				
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 200	**Option**				
0	Logo Prohibition	Logo Prohibition (0: Menu, 1: Forced)	0	0 - 1	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	0	0 - 1	0: Disable 1: Enable
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)	-	500-8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)	-	500-8000	
23	Lamp Warning Time (HIGH)	Lamp Life at High Mode (Warning Time at High)	-	500-8000	
40	Lamp PWM PresAv 50Hz		80	0-255	
41	Lamp PWM PresAv 60Hz		67	0-255	

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Group/Item	Item Name	Function	Initial	Range	Note
42	Lamp PWM PresUnlock		65	0-255	
43	Lamp PWM PresPcA		2	0-255	
44	Lamp PWM PresPcB		3	0-255	
45	Lamp PWM PrefHAv50Hz		5000	0-65535	
46	Lamp PWM PrefHAv60Hz		5000	0-65536	
47	Lamp PWM PrefHUnlock		5000	0-65535	
50	Lamp Replacement Display		1	0-1	
51	Filter Warning Display	Filter Warning Display On / Off	1	0-1	1: On, 0: Off
52	Lamp Counter Reset Times	Reset Times of Lamp Counter	0	0-255	Read only
53	Filter Counter Reset Times	Filter Counter Reset Times	0	0-255	
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
58	Lamp Go Out		0	0 - 1	
59	Source Search Enable	Source Search Enable (0: Disable 1:Enable)	0	0-1	
60	Language Default Setting	Language Default setting (0: English 1:Japanese)	0	0-1	
70	RC Mode	RC mode setting	1	0 - 1	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202	**Option (MCI model only)**				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210	**Lamp Control**				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0-255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 1 Data for Dimmer: Dim Level 2 at the less than the Value	14	0-255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 1 Data for Dimmer: Dim Level 3 at the less than the Value	21	0-255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 1 Data for Dimmer: Dim Level 4 at the less than the Value	28	0-255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 1 Data for Dimmer: Dim Level 5 at the less than the Value	35	0-255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 1 Data for Dimmer: Dim Level 6 at the less than the Value	42	0-255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 1 Data for Dimmer: Dim Level 7 at the less than the Value	49	0-255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0-255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0-255	

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Group/ Item	Item Name	Function	Initial	Range	Note
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0-255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	12/7	0 - 15	(PLC-XD2600/PLC-XD2200)
19	DIMMER_LEVEL_ECO	Eco Dimmer Level	1/1	0 - 15	(PLC-XD2600/PLC-XD2200)
20	Lamp check enable		0		0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High	15/12	0 - 15	(PLC-XD2600/PLC-XD2200)
23	Past Calculation System		-	-	
24	New APL System		-	-	
25	Red Average Level		-	-	
26	Green Average Level		-	-	
27	Blue Average Level		-	-	
29	SAT		-	-	
29	Chroma Coefficient		160	0-255	
30	cSatMin		53	0-255	
31	cSatMax		203	0-255	
32	wCoeMin		400	0-1000	
33	wCoeMax		1000	0-1000	
Group 231	**VBI Slice Level**				
0	Generic Initial Slicing Level	PW190 register 0xE344	9	0-255	
1	Generic High Level Threshold	PW190 register 0xE345	0	0-255	
2	Generic Low Level Threshold	PW190 register 0xE346	0	0-255	
3	Generic Minimum Low Level	PW190 register 0xE347	0	0-255	
4	Generic Maximum High Level	PW190 register 0xE348	255	0-255	
Group 250	**FAN Control**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan Adjust the tolerance of DAC and Fan Volage. * Lamp mode is forced Eco	38	0 - 255	
1	FAN1 MAX ADJUST (DAC)		233	0 - 255	
2	FAN2 MIN ADJUST (DAC)		38	0 - 255	
3	FAN2 MAX ADJUST (DAC)		230	0 - 255	
4	FAN3 MIN ADJUST (DAC)		18	0-255	
5	FAN3 MAX ADJUST (DAC)		240	0-255	
6	Not used				
7	Not used				
8	Href		1300	0 - 9999	
9	Vref		300	0 - 999	
Group 251					
	Not used				
Group 252	**FAN Option**				
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0	0 - 5	
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V) Effective only when Fan Manual switch is 1	100	0 - 255	
4	FAN2 MANUAL VOLTAGE		100	0 - 255	
5	FAN3 MANUAL VOLTAGE		100	0 - 255	

Group/ Item	Item Name	Function	Initial				Range	Note
6	Not used		-					
	PLC-XD2600							
Group 253	**Fan Tem Error Setting (Memorized)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	Temp A Warning (High)		45	45	44	44	-	
1	Temp B Warning (High)		55	54	54	54	-	
2	Temp C Warning (High)		59	59	58	58	-	
3	Temp B-A Warning(High)		100	100	100	100	-	
4	Temp C-A Warning(High)		100	100	100	100	-	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	45	45	44	44	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	55	54	53	53	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	58	58	57	57	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning(Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	44	44	43	43	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco(Panel)	54	53	52	52	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco(Panel)	57	56	55	55	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5				0-100	
16	Temp B Warning Offset (Temp)		5				0-100	
17	Temp C Warning Offset (Temp)		5				0-100	
18	Temp B-A Warning Offset (Temp)		0				0-100	
19	Temp C-A Warning Offset (Temp)		0				0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	3				0-100	
21	Temp B Warning Offset (Time)		3				0-100	
22	Temp C Warning Offset (Time)		3				0-100	
23	Temp B-A Warning Offset (Time)		3				0-100	
24	Temp C-A Warning Offset (Time)		3				0-100	
	PLC-XD2600							
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	High Fan Control Min Temp		32	31	33	32	-	
1	High Fan Control Max Temp		41	41	38	38	-	
2	High Fan1 Min		78	80	98	100	-	
3	High Fan1 Max		135	135	135	135	-	
4	High Fan2 Min		75	85	100	110	-	
5	High Fan2 Max		90	95	125	130	-	
6	High Fan3 Min		75	80	100	105	-	
7	High Fan3 Max		100	105	110	115	-	
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	33	32	33	32	20-100	
11	Normal Fan Control Max Temp		40	40	38	38	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	68	75	95	100	0-255	
13	Normal Fan1 Max		135	135	135	135	0-255	
14	Normal Fan2 Min		73	85	100	113	0-255	
15	Normal Fan2 Max		96	101	124	129	0-255	
16	Normal Fan3 Min		75	80	100	105	0-255	
17	Normal Fan3 Max		135	135	135	135	0-255	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	32	32	32	31	20-100	
21	Eco Fan Control Max Temp		40	39	38	37	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	52	60	75	80	0-255	
23	Eco Fan1 Max		120	120	125	125	0-255	
24	Eco Fan2 Min		45	45	60	60	0-255	

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Group/ Item	Item Name	Function	Initial				Range	Note
25	Eco Fan2 Max		65	70	80	85	0-255	
26	Eco Fan3 Min		55	60	75	80	0-255	
27	Eco Fan3 Max		110	110	115	115	0-255	
	PLC-XD2200							
Group 253	**Fan Tem Error Setting (Memorized)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	Temp A Warning (High)		45	45	44	44	-	
1	Temp B Warning (High)		54	54	54	54	-	
2	Temp C Warning (High)		60	60	58	58	-	
3	Temp B-A Warning(High)		100	100	100	100	-	
4	Temp C-A Warning(High)		100	100	100	100	-	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	45	45	44	44	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	54	54	53	53	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	58	58	57	57	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning(Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	44	44	43	43	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco(Panel)	54	54	52	52	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco(Panel)	57	56	55	55	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	3				0-100	
21	Temp B Warning Offset (Time)		3				0-100	
22	Temp C Warning Offset (Time)		3				0-100	
23	Temp B-A Warning Offset (Time)		3				0-100	
24	Temp C-A Warning Offset (Time)		3				0-100	
	PLC-XD2200							
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	High Fan Control Min Temp		32	31	33	32	-	
1	High Fan Control Max Temp		41	41	38	38	-	
2	High Fan1 Min		78	80	98	100	-	
3	High Fan1 Max		135	135	135	135	-	
4	High Fan2 Min		73	85	100	113	-	
5	High Fan2 Max		96	101	124	129	-	
6	High Fan3 Min		75	80	10	105	-	
7	High Fan3 Max		135	135	135	135	-	
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	32	32	33	32	20-100	
11	Normal Fan Control Max Temp		40	40	38	38	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	68	75	95	100	0-255	
13	Normal Fan1 Max		135	135	135	135	0-255	
14	Normal Fan2 Min		71	81	107	118	0-255	
15	Normal Fan2 Max		108	113	144	149	0-255	
16	Normal Fan3 Min		70	75	100	105	0-255	
17	Normal Fan3 Max		135	135	135	135	0-255	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	32	31	32	32	20-100	
21	Eco Fan Control Max Temp		40	39	38	37	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	52	60	75	80	0-255	
23	Eco Fan1 Max		120	120	125	125	0-255	
24	Eco Fan2 Min	Fan voltage value at Eco (unit: 0.1V	45	45	60	60	0-255	
25	Eco Fan2 Max		65	70	80	85	0-255	
26	Eco Fan3 Min		55	60	75	80	0-255	
27	Eco Fan3 Max		110	110	115	115	0-255	
Group 255	**Fan Start/Cooling Setting**							
0	Fan1 Initial Volt	Fan Start Voltage(0.1V)	55				0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
1	Fan2 Initial Volt	Fan Start Voltage(0.1V)	55	0-255	
2	Fan3 Initial Volt		55	0-255	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130	0-255	
5	Fan2 Cooling Speed		130	0-255	
6	Fan3 Cooling Speed		130	0-255	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2	1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3	1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3	1-15	
11	OnStart Cooling Start Thresh-old		38	0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1	0-1	
Group 256	**Fan/Lamp Voltage Dimmer Setting**				
0	Lamp Vlotage		-	-	
1	Lamp Vol Threshold		0	30-90	
2	Fan 1 Speed Gain		10	0-255	
3	Fan 2 Speed Gain		10	0-255	
4	Fan 3 Speed Gain		10	0-255	
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Chech Period	Dimmer Average measurement Time (0:10sec. 1:30sec. 2:60 sec. 90: sec...10:30sec.)	0	0-10	
1	Dimmer Average	Dimmer Average Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltage Difference Goal		-		
Group 258	**Fan Network IC temperature rising resolve**				
0	Standby Cooling Check Cycle		5		
1	Standby Cooling Start Threshold		40		
2	Standby Cooling Enable		1		
Group 260	**Auto Calibration(Common)*Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	2	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1-255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0-1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0-1000	
2	Cb Imange Area Start X	Cb Acquiring Area H-Start Position	500	0-1000	
3	Cb Imange Area Start Y	Cb Acquiring Area V-Start Position	200	0-1000	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
4	Cr Imange Area Start X	Cr Acquiring Area H-Start Position	500	0-1000	
5	Cr Imange Area Start Y	Cr Acquiring Area V-Start Position	200	0-1000	
6	Image Area H Width	Image Level Acquiring Area	8	0-4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0-4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0-255	
9	Cb Target Level	Target Value of Cb Level Adj.	212	0-255	
10	Cr Target Level	Target Value of Cr Level Adj.	212	0-255	
11	Gain Tolerance	Torelance of Level Adj.	1	0-255	
12	Delta Gain	Deviation Width of Gain Value	9	0-255	
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	
6	Y - GAIN AREA H START		50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0-255	
17	Y-GAIN TARGET		217	0-255	
18	CB-GAINTARGET		237	0-255	
19	CR-GAINTARGET		237	0-255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1-255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1-255	
Group 270	**CUSTOM(Aspect)**				
0	Scaler Horizontal	Horizontal Scaler Edit	100	68-132	
1	Sclaler Vertical	Vertical Scaler Edit	100	68-132	
2	Connect	Seperate/Connect Edit	0	0-1	0:Seperate, 1: Connect
3	Position Horizontal	Horizontal Postion Correction	100	85-115	
4	Position Vertical	Vertical Position Correct	100	85-115	
5	Aspect Enable	Aspect Adj. Enable	0	0-1	1: Enable, 0: Disable
Group 280	**AutoPC Adjust**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0-1	0:Enabel, 1:Disable
1	Frequency Step	Frequency Steps of Total Dot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0-10	0[]<– - –> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0-1	0;Excutes Fine Phase; 1:Not Excute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType * Panel Type Check**				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500	**Composite (NTSC) Composite / S-Video**				
0					

Group/ Item	Item Name	Function	Initial	Range	Note
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	**Composite (PAL) Composite / S-Video**				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	**Composite (SECAM) Composite / S-Video**				
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	**SCART(480i)**				
0					
1	Disp Dots		674	0 ~ 4095	
2	H Back Porch		132	0 ~ 4095	
3	V Back Porch		43	0 ~ 4095	
4	Disp Line		452	0 ~ 4095	
Group 511	**SCART (575i)**				
0					
1	Disp Dots		650	0 ~ 4095	
2	H Back Porch		152	0 ~ 4095	
3	V Back Porch		68	0 ~ 4095	
4	Disp Line		514	0 ~ 4095	
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0~4095	
1	Disp Dots		656	0~4095	
2	H Back Porch		162	0~4095	
3	V Back Porch		64	0~4095	
4	Disp Line		534	0~4095	
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	**YCbCr (575P)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		690	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only

Electrical Adjustments

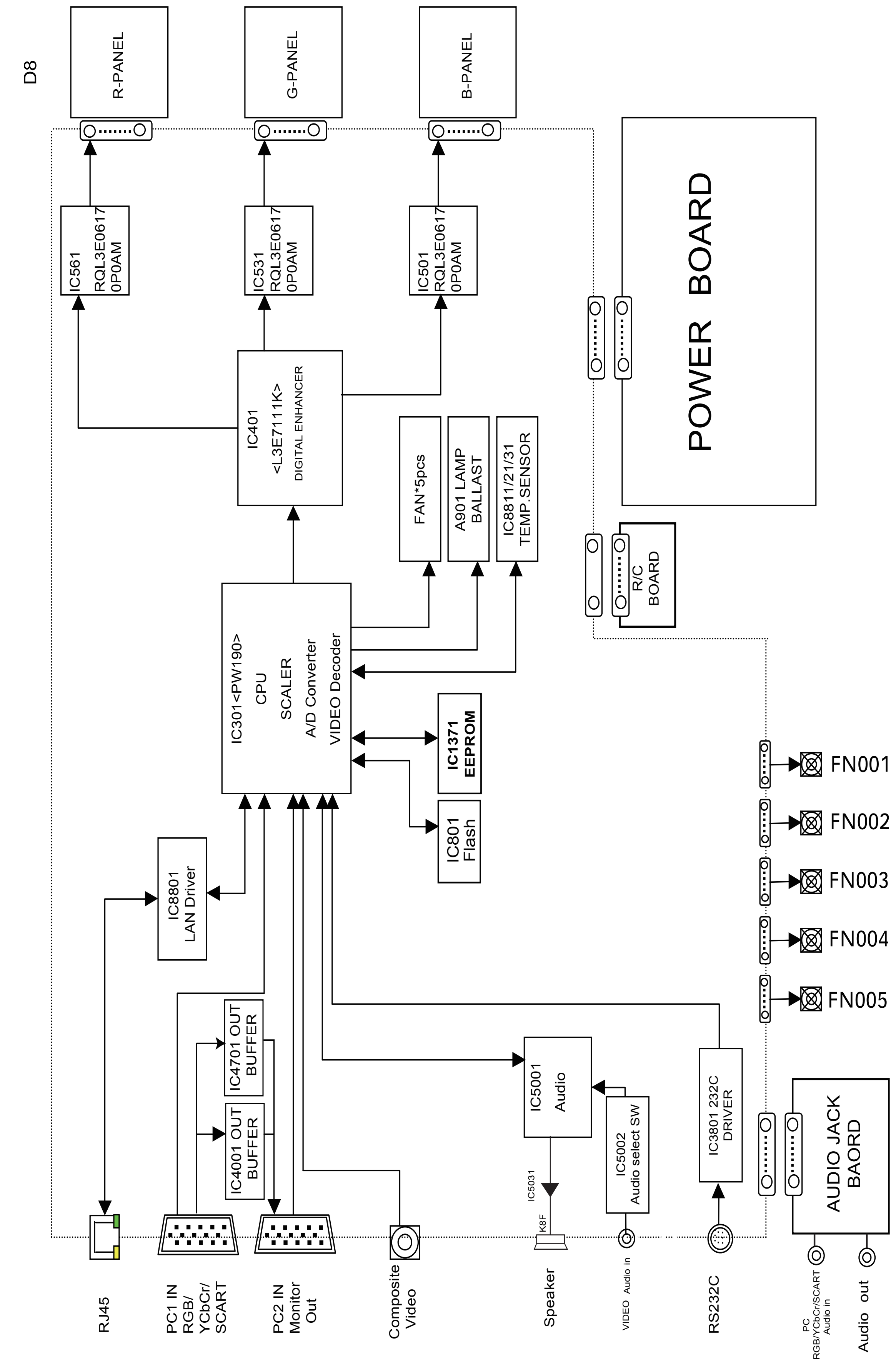
Group/ Item	Item Name	Function	Initial	Range	Note
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		313	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	

Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		318	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 560	**HDCP (480P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 561	**HDCP (575P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 562	**HDCP (720P-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)		0 - 255	
8	VSBEG		2	0 - 15	

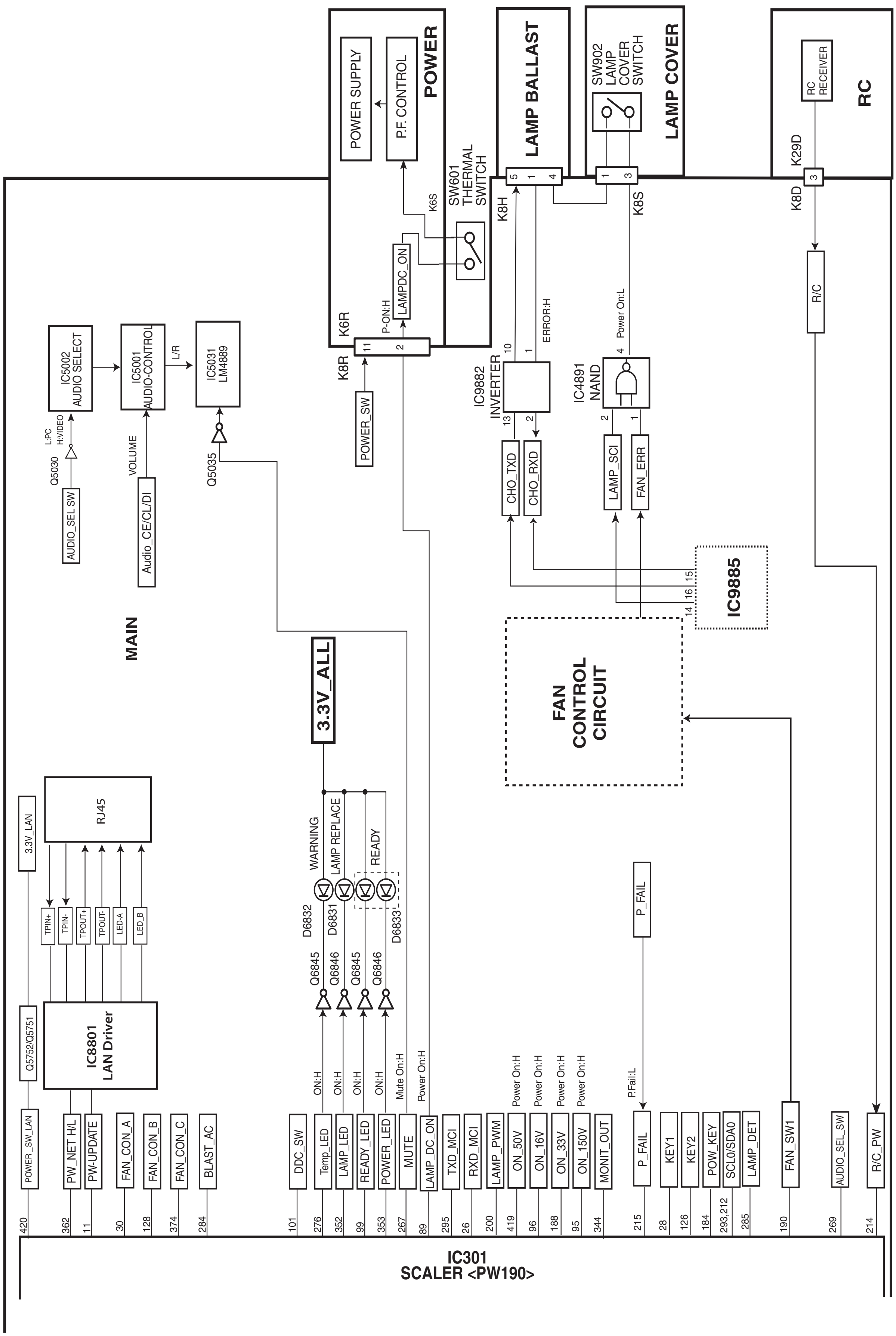
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 564	**HDCP (1080i-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 565	**HDCP (1080i-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 566	**HDCP (1035i)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 981	**Color Shading Adj Offset**				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

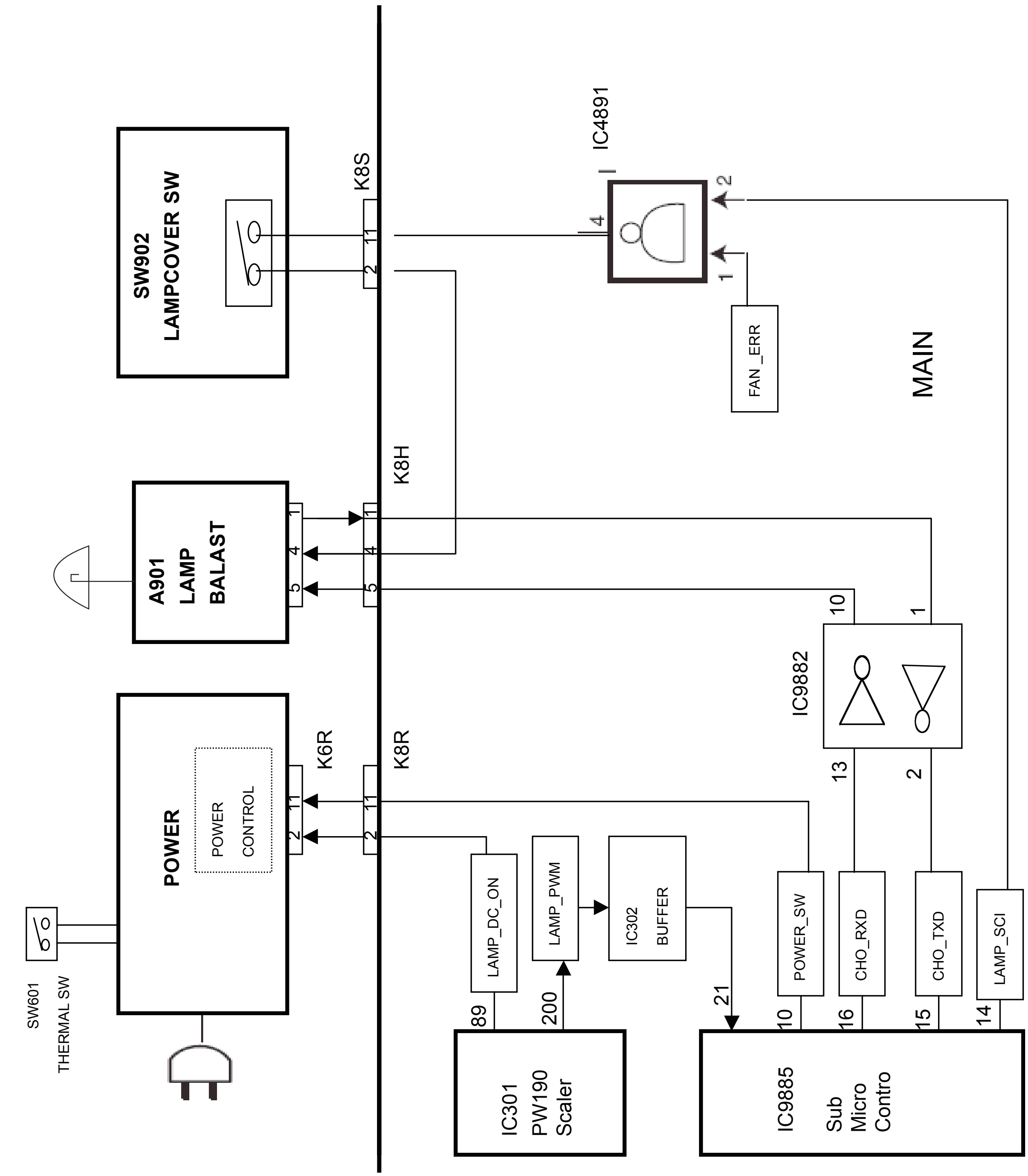
Chassis over view



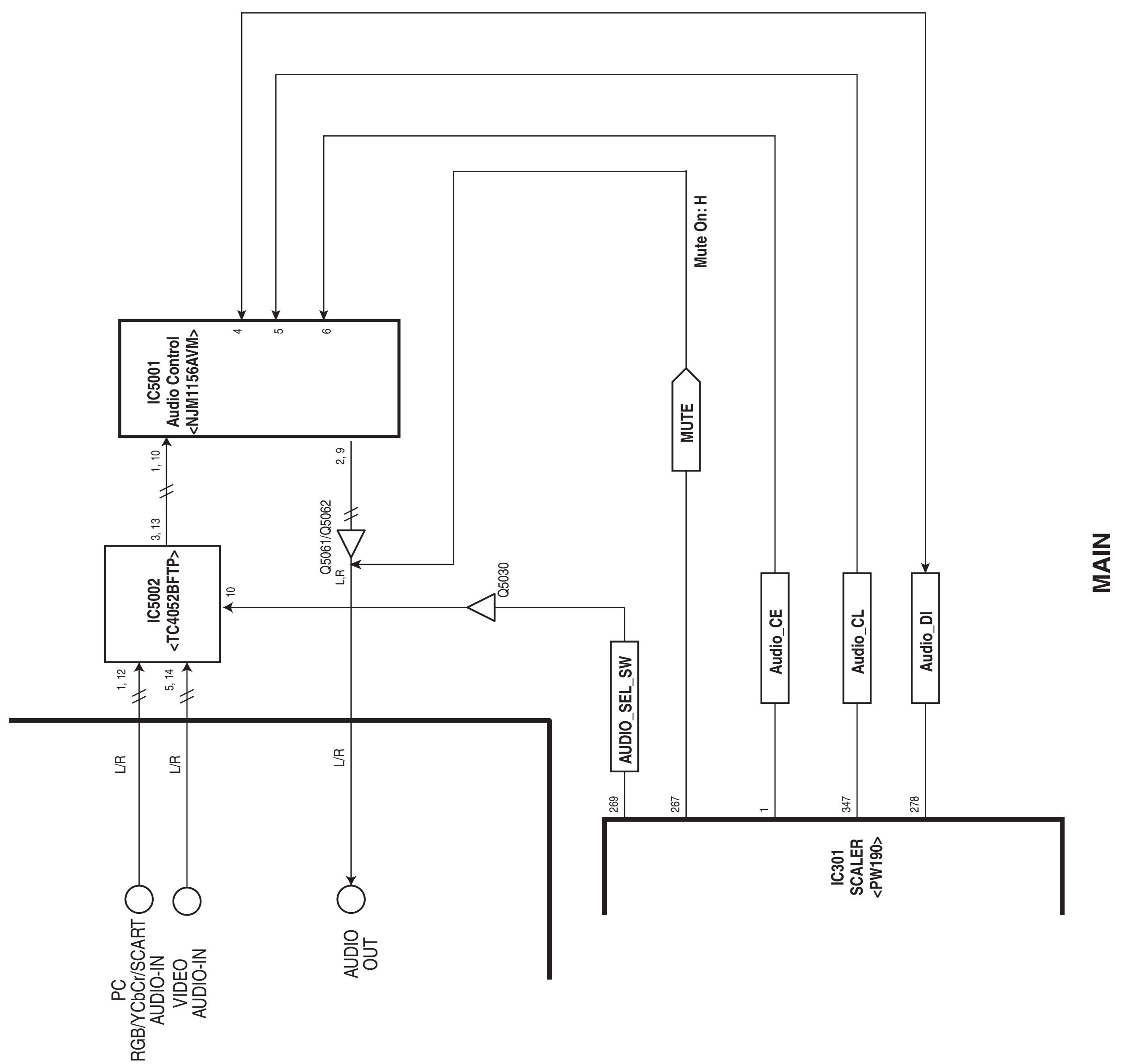
System control



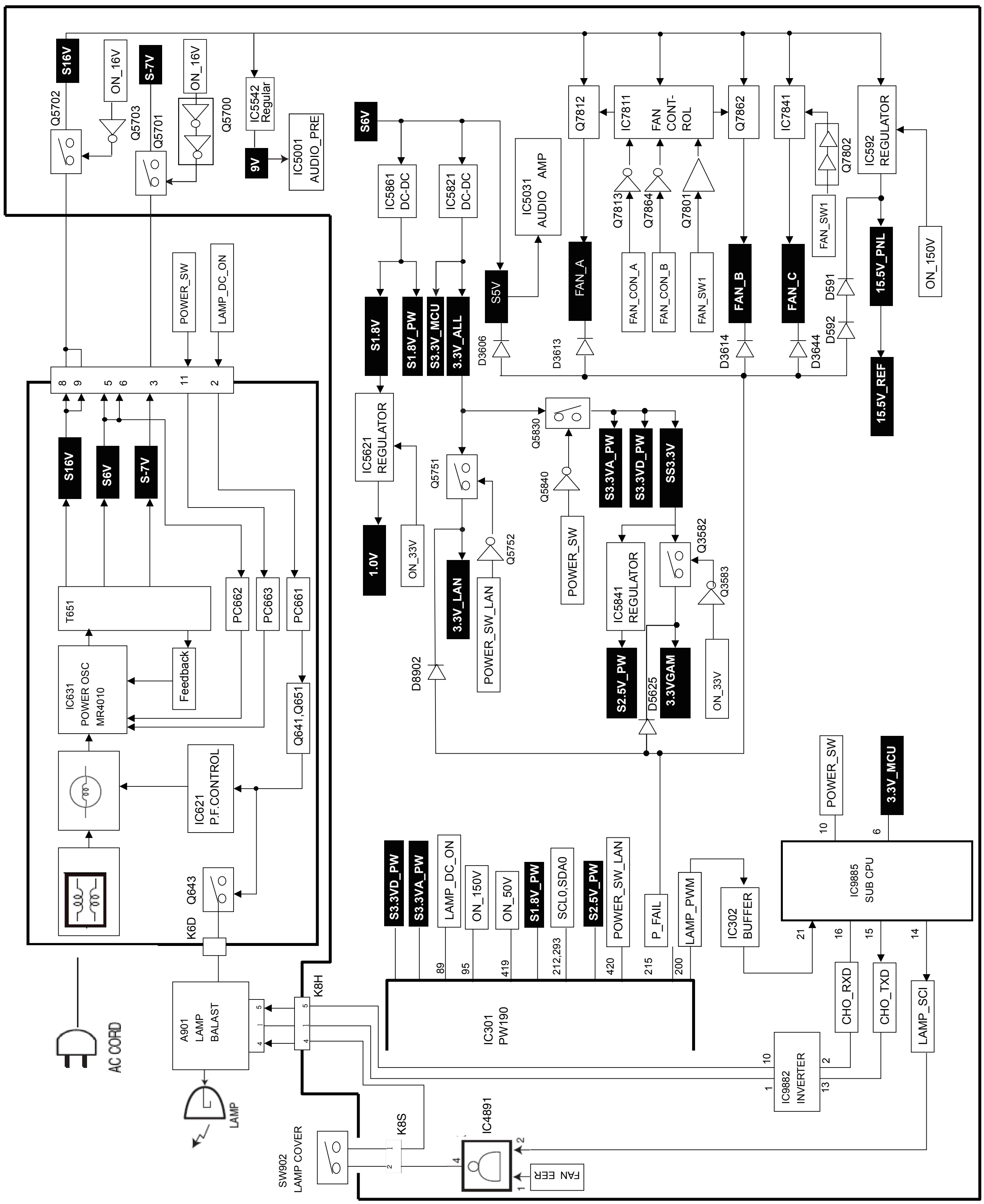
Lamp control



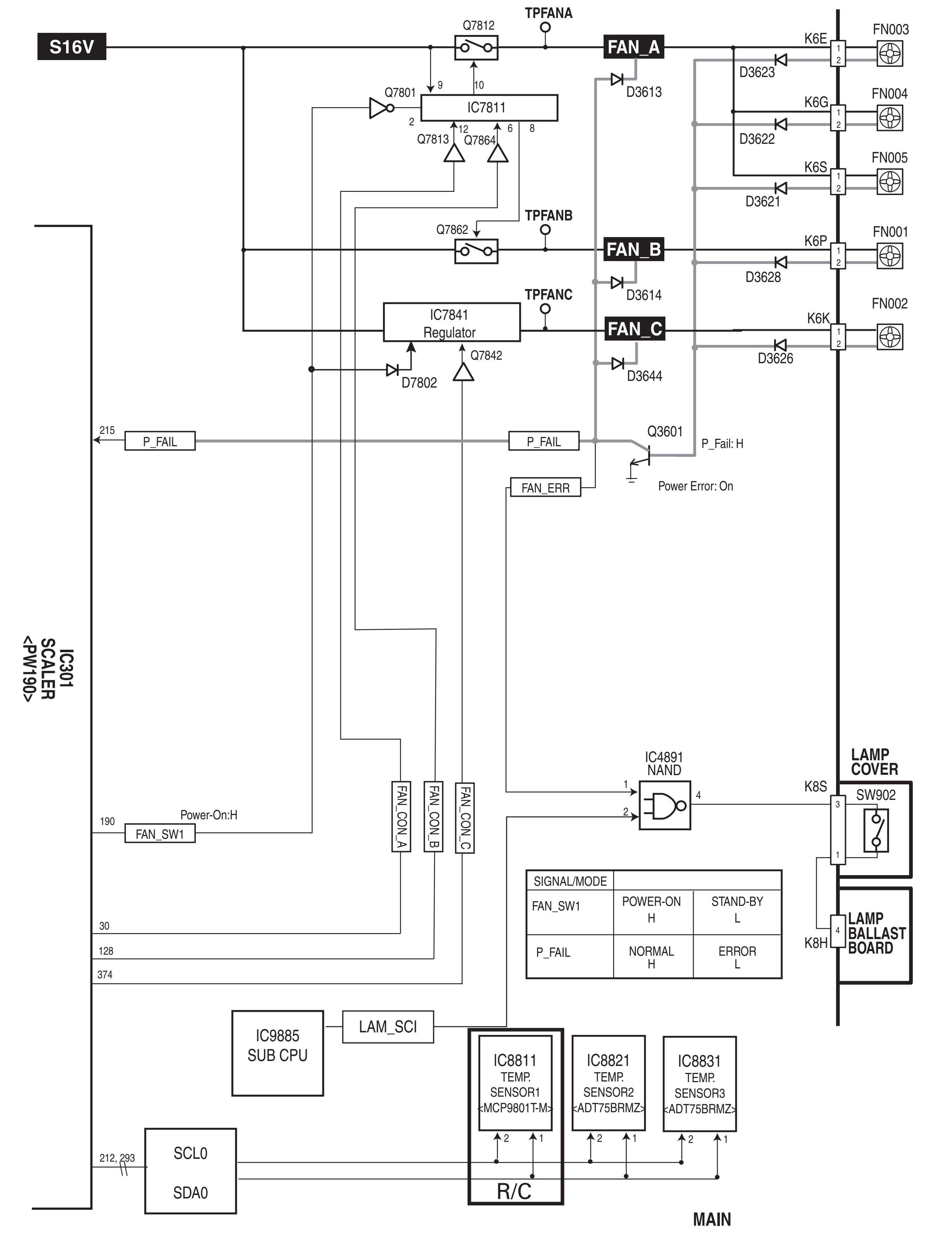
Audio circuit



Power supply & protection circuit

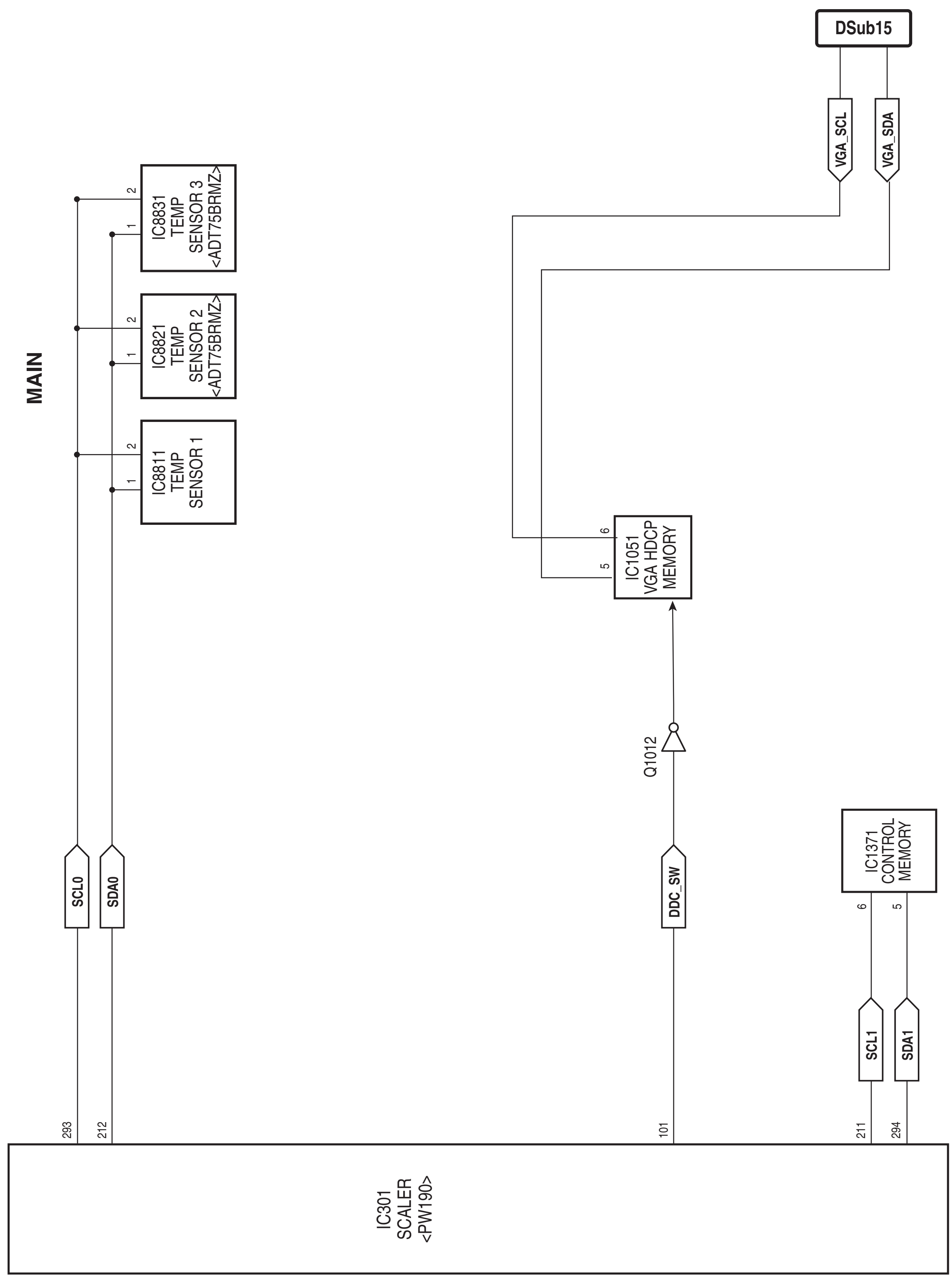


Fan control circuit



SIGNAL/MODE		
FAN_SW1	POWER-ON H	STAND-BY L
P_FAIL	NORMAL H	ERROR L

IIC bus control circuit



Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER **red/green**	WARNING **red**	LAMP REPLACE **yellow**	
off	off	off	The projector is off. (The AC power cord is unplugged.)
red	off	*	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
green	off	*	The projector is operating normally.
blinks red	off	*	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
blinks green	off	*	The projector is in the Power management mode.
blinks red	blinks red	*	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.)
red	blinks red	*	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking.
off	red	*	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

• • • green. • • • red • • • off

• • • blinks green. • • • blinks red.

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

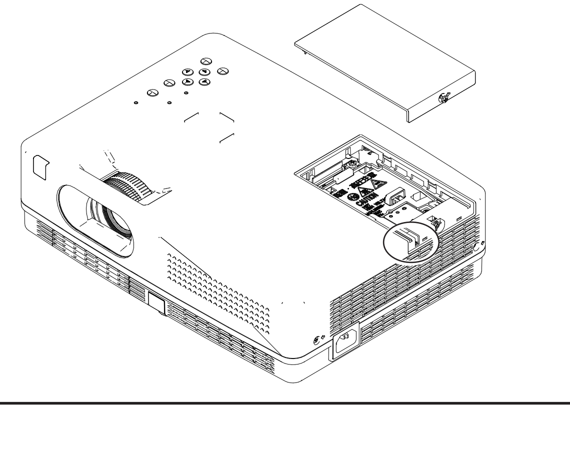
This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW601 (Thermal sw.) short in normal
  SW601 opens when the surrounding temperature of the switch exceeds 85°C.

- **When the WARNING (red) and POWER (red) indicators are blinking**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops blinking, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8831, IC8821 on the Main board and IC8811 on the R/C board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shutdown signal, LAMP_DC_ON, to the power supply circuit to stop its operation, and signal LAMP_SCI to the lamp ballast board via IC4891 and SW902<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies S16V, S6V, S-5V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN001, FN002, FN003, FN004, FN005 and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 becomes "High". As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  ON_150V signal (Power-on: H) is output from pin 95 of IC301 and switches IC592,15.5VL supply circuit,
  ON_33V signal (Power-on: H) is output from pin 188 of IC301 and switches IC5621, 1.0V and Q3582 33V supply circuit.
  LAMP_DC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.C Control IC, IC621, on the power supply board through Q691, and PC663.
  LAMP_SCI signal (Power-on: H) is output from pin 14 of IC9885 and applied to pin 2 of IC4891 and out put pin 4 and then supplied to the lamp ballast board through SW902<Lamp Cover SW>.
  LAMP_DET signal at the pin 285 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET signal becomes "High" and then IC301 shuts down the power supply circuit.

Lamp Cover switch
Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW902).



No Picture

Check following steps.

No picture with all of input sources

Yes → Check signal processing stage and LCD driving stage;
- Check RGB S&H signals at test points TP35B, TP35G, TP35R.
- Check power supply circuit 15.5V and peripheral circuit.
- Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits.

No ↓

No picture with PC1 [Analog] input source only

Yes → Check IC4001 <Amplifier/Switch> and peripheral circuit.

No ↓

No picture with PC2 [Analog] input source only

Yes → Check IC301<Scaler> and peripheral circuit.

No ↓

No picture with all of computer input sources

Yes → Check PC/AV source selecting stage and processing stage;
- Check IC4701 and IC301<Scaler> and peripheral circuit.

No ↓

No picture with video input sources

→ Check AV source selecting and decoding stage;

S-Video source
- Check S-video signal (Y/C).
- S_CHROMA signal is applied to pin 265 of IC301<Scaler>, and S-Y signal is applied on pin 264 of IC301.

Composite video source
- Check composite video signal (Video).
- The composite video signal is applied to pins 262 of IC301 <Scaler>.

No Sound

Check following steps.

Check if the audio signal is observed at pins 3 and 13 of IC5002.

No → Check IC5002 and peripheral circuit.
Check the Pins 7 and 16 of IC5002, the voltage is respectively -7V and 5V.
Check the pin 10 of IC5002.

Yes ↓

Check if the audio signal is observed at pins 2 and 9 of IC5001.

No → Check IC5001 and peripheral circuit.
Check 9V power supply.

Yes ↓

Check if the audio signal is observed at pins 5 and 8 of IC5031.

No → Check IC5031 and peripheral circuit.
Check the Mute signal at pin 1 of IC5301. The Mute signal is output from pin 267 of IC 301<Scaler>. The OUT_DET signal is sent from Audio Out terminal.
Mute-On: H at pin 267 of IC301, L at pin 1 of IC5031.

Yes ↓

Check audio output circuit.
Check speaker, connection of the terminal "K8F".

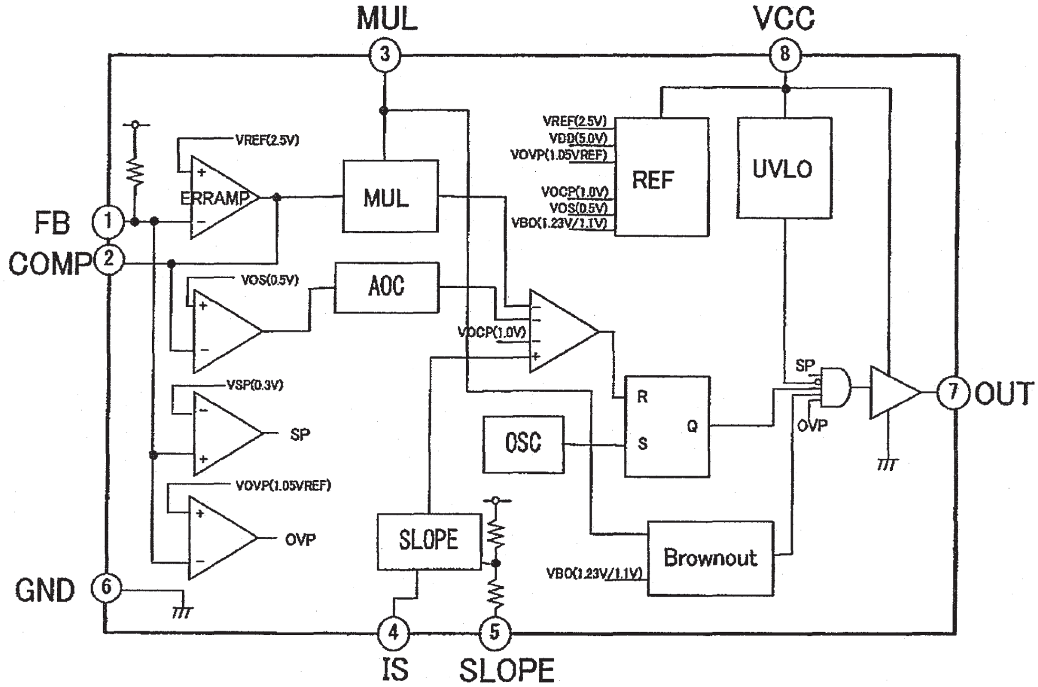
Control Port Functions

Scaler I/O Port Functions (PW190)

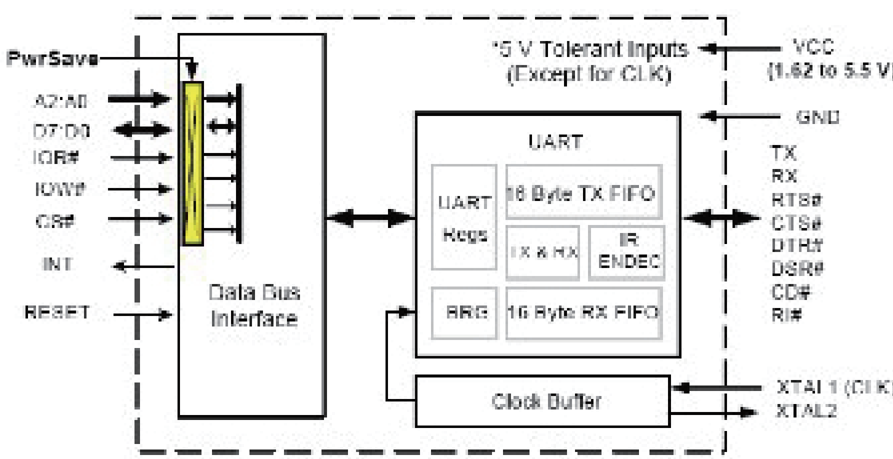
PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
1	A1	PORTD7		AUDIO_CE	Aduio Control	O
11	A11	PORTC5		PW_UPDATE		O
26	A26	RXD1		RXD_MCI	Network RXD	I
101	B2	PORTD6		DDC_SW		O
124	B25	TXD_PW		TXD_PW	Serial Control RXD	O
99	C1	PORTE3		READY_LED		O
202	C12	PORTC2		SDATA_PW	3-Wired Serial Control Data	O
205	E15	PORTC0		PW_NMCLR	LAN control	I
208	C18	PORTH5	2-Wire Serial Data 2	SDA2	IIC Bus Switch IC DAC, SoundIC[5V_SW]	O
211	C21	PORTH1	2-Wire Serial Clock 1	SCL1		O
212	C22	PORTH7	2-Wire Serial Data 0	SDA0	IIC Bus Temp Sensor [S3.3V]	O
28	C26	ADC1	ADC1	KEY1	Input/Select/Keystone	I
191	D2	PORTE4		PW_MASTER_SCK		O
276	D3	PORTE1		TEMP_LED	LED on:H	O
278	D5	PORTD5		AUDIO_DI	Sub CPU commuication	I
284	D11	PWM1		BLAST_AC	Ballast CTL	O
285	D12	PORTC3		LAMP_DET	Lamp retry detect, High=Retry	I
290	D17	PORTH4	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	PORTH6	2-Wire Serial Clock 0	SCL0	IIC Bus Control Clock	O
294	D21	PORTH3	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
295	D22	TXD1		TXD_MCI	Network TXD	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY-2	Key Control Input	I
190	E2	PORTE7		FAN_SW1	Fan Control Swicth 1	O
275	E3	PORTE5		PW_MASTER_SD0	Sub CPU Communication	O
352	E4	PORTE2		LAMP_LED	LED on:H	O
353	E5	PORTE0		POWER_LED	LED on:H	O
362	E14	PORTC4		IRM_RST	L3E07111 reset	O
368	E20	PORTH0		RXD_PW	Serial Control RXD	I
216	E24	ADC3	ADC3	SENSOR_T	Keystone Sensor	I
127	E25	ADC7	ADC7	SENSOR_X	Keystone Sensor	I
30	E26	DAC1	DAC1	FAN CON_A	FAN CON_A	O
96	F1	PORTF4		ON_16V	Standby Power Control	I
189	F2	PORTF1		PW_MASTER_SDI	Sub CPU Communication	I
420	F5	PORTF2		POWER_SW_LAN	Netwokr Power SW	I
298	F23	ADC4	ADC4	Option SW	Option Switch	I
128	F25	DAC2	DAC2	FAN CON_B	FAN CON_B	O
374	J22	DAC3	DAC3	FAN_CON_C	FAN_CON_C	O
347	K4	PORTD5		AUDIO_CL	Audio Control	I
184	L2	PORTB6		POW_KEY	Power On Key, H:ON	I
269	L3	PORTB7		AUDIO_SEL_SW	AUDIO_SEL_SW	O
89	N1	PORTA3		LAMP_DC_ON	Power Control, Power On: H	O
267	N3	PORTA6		MUTE	High=MUTE_ON	O
344	N4	PORTA7		MONIT_OUT	Low=in, High=Monit OUT	O
413	N5	PORTA4		MODEL_OPTION	XD2600=High, XD2200=Low	O

IC Block Diagrams

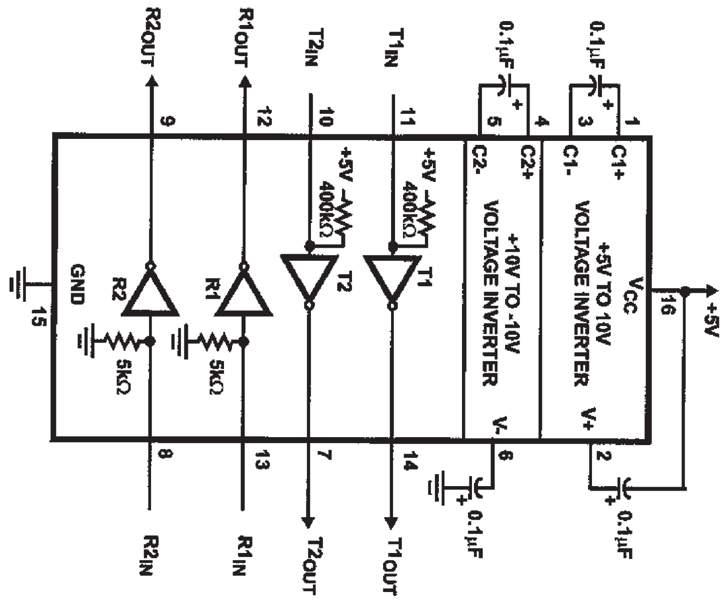
● FA5550NG <P.F. Control, IC621>



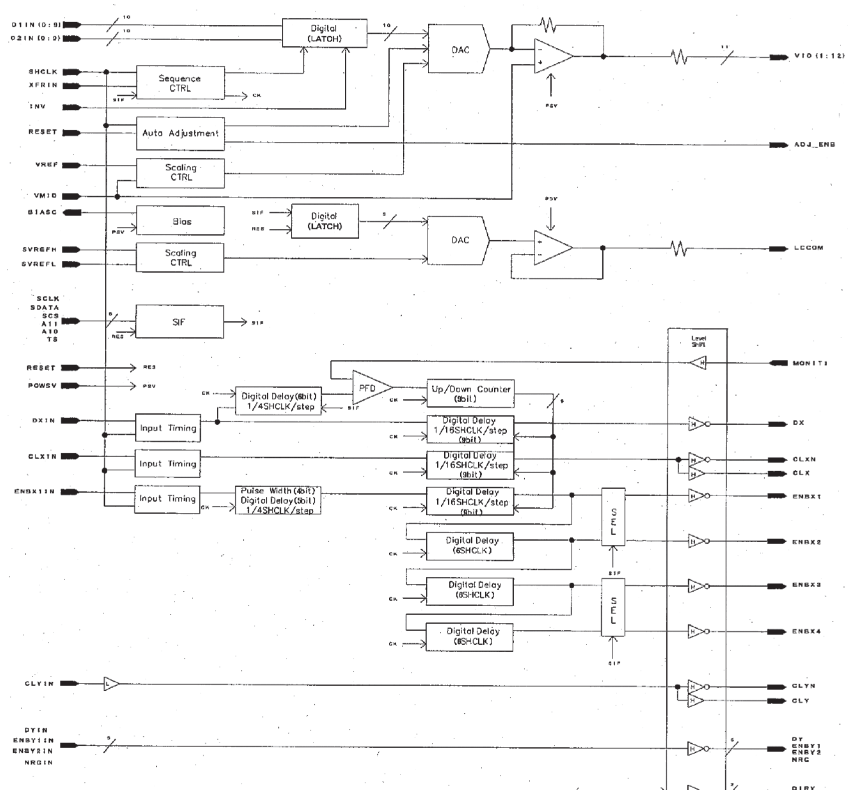
● LC87F2G08A5AN6 <UART, IC9885>



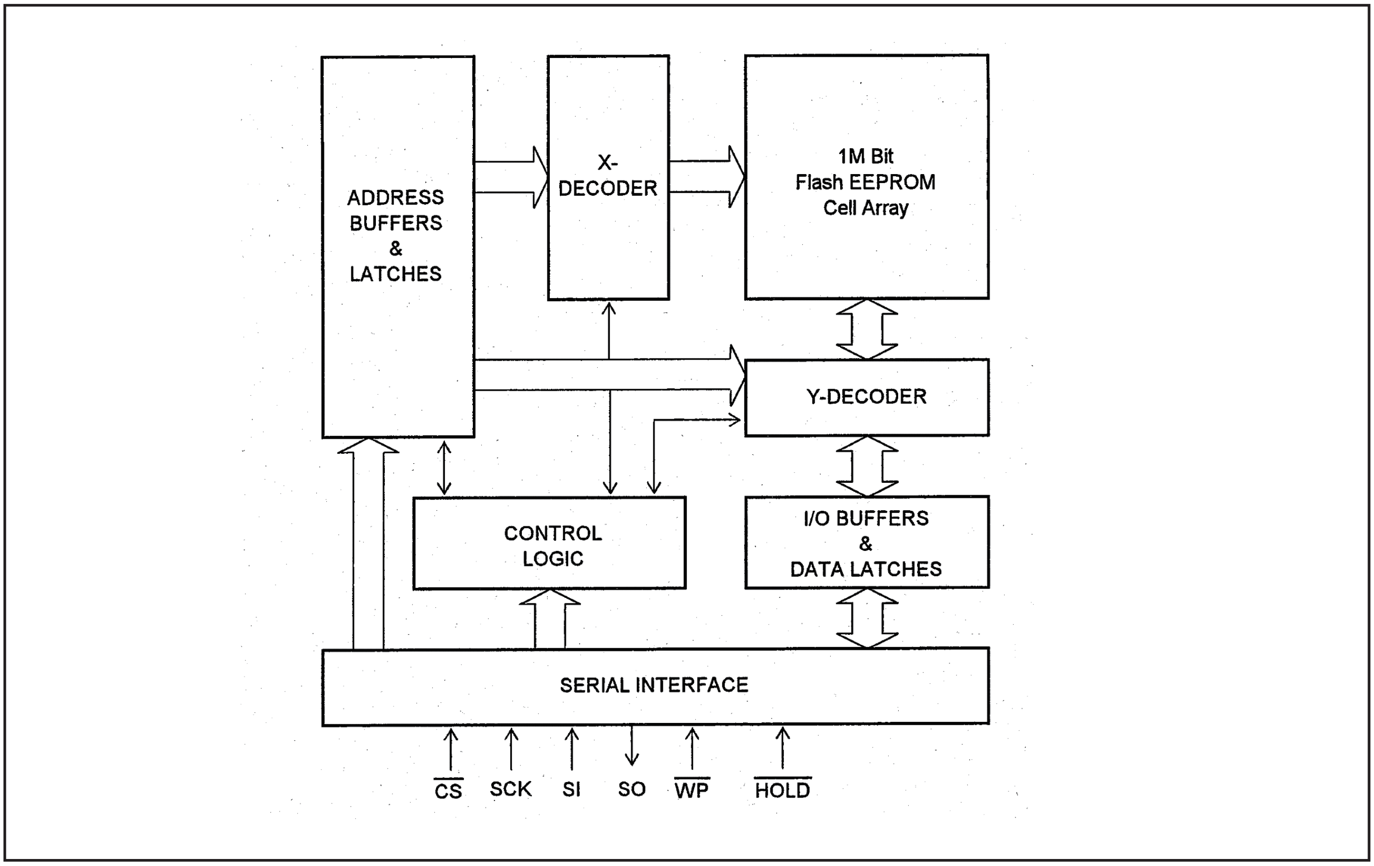
● MAX232ECPWRP <RS-232C Driver, IC3801>



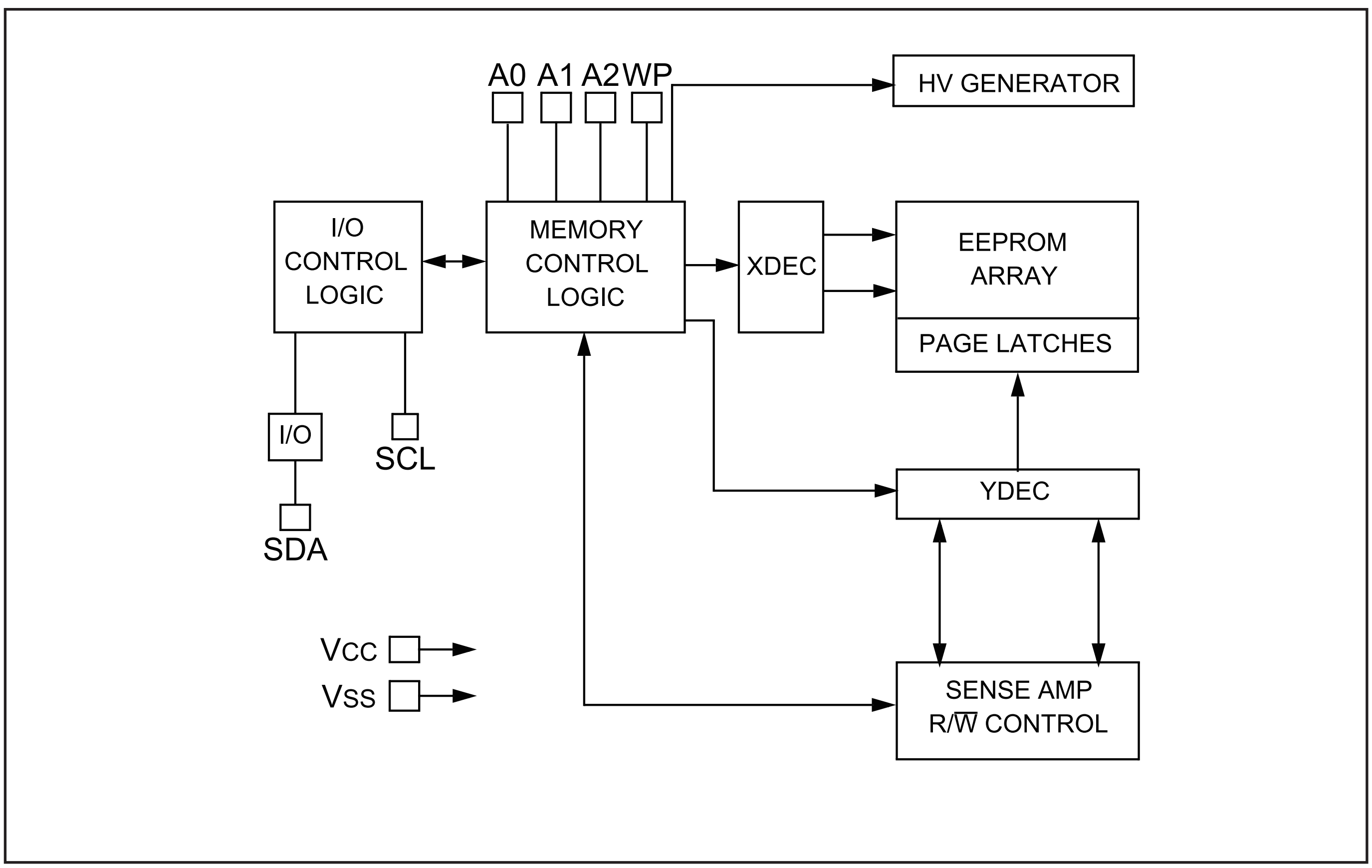
● L3E06170 <D/A, S/H-LCD Driver, IC501, IC531, IC561>



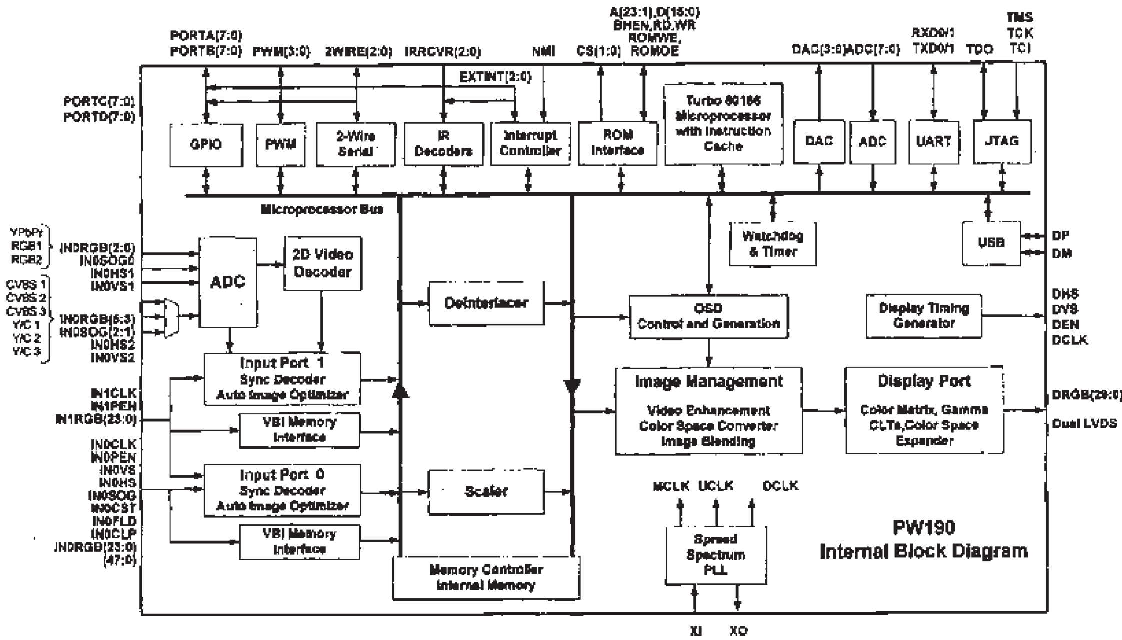
● LE25FU106BMA <Flash IC, IC8803>



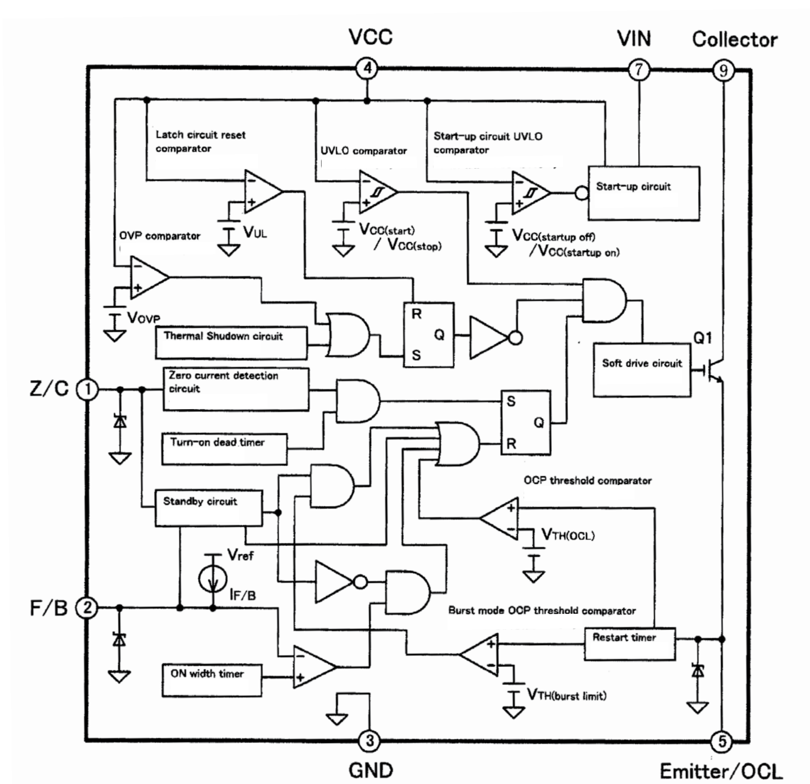
● 24AA64T-I/MS <EEPROM, IC8802>



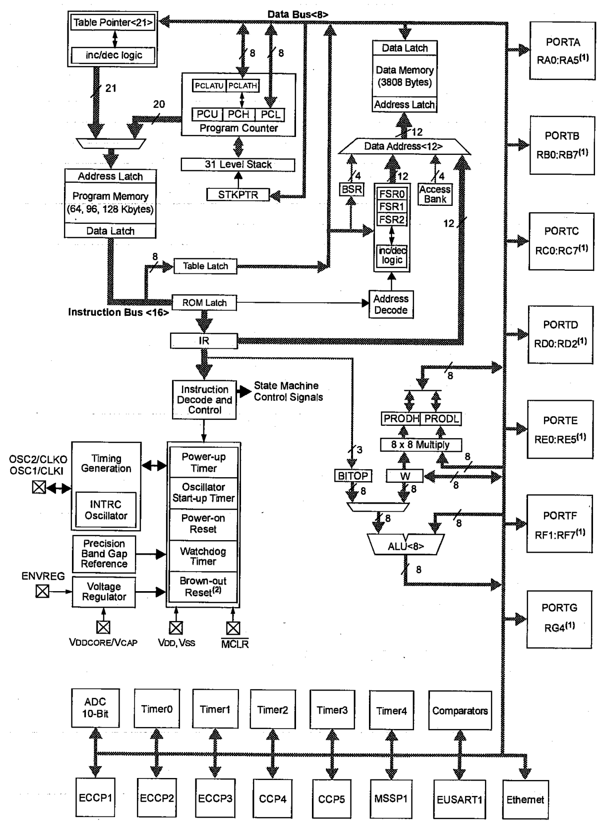
● PW190 <Scaler, IC301>



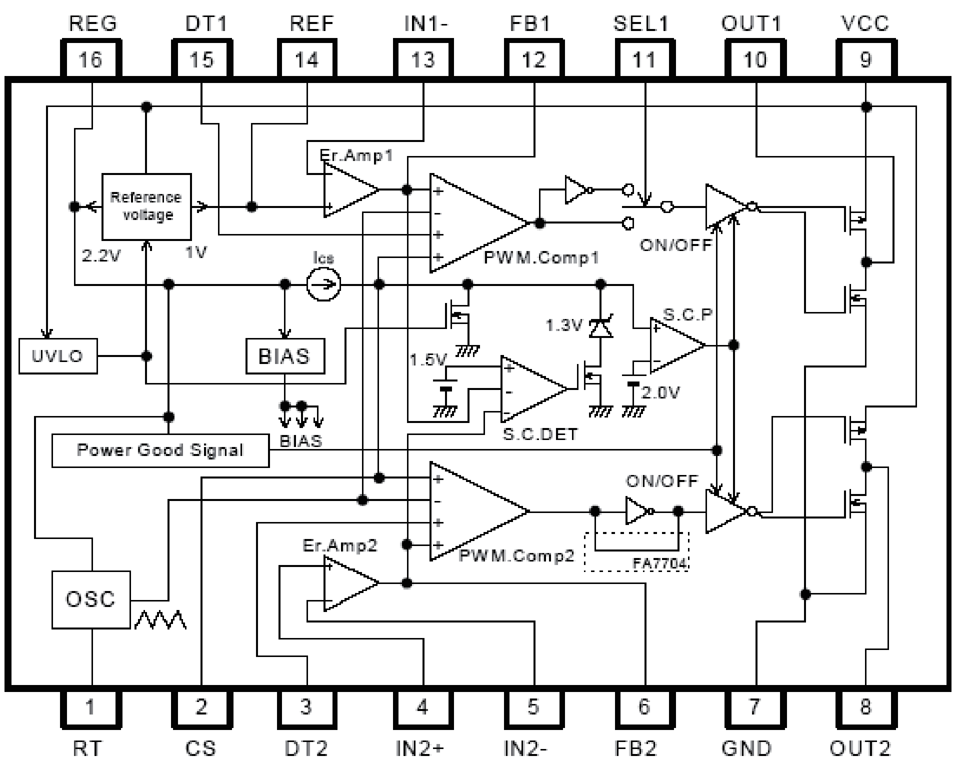
● MR4010 <Power OSC, IC631>



● PIC18F67J60<LAN CONTROL,IC8801>

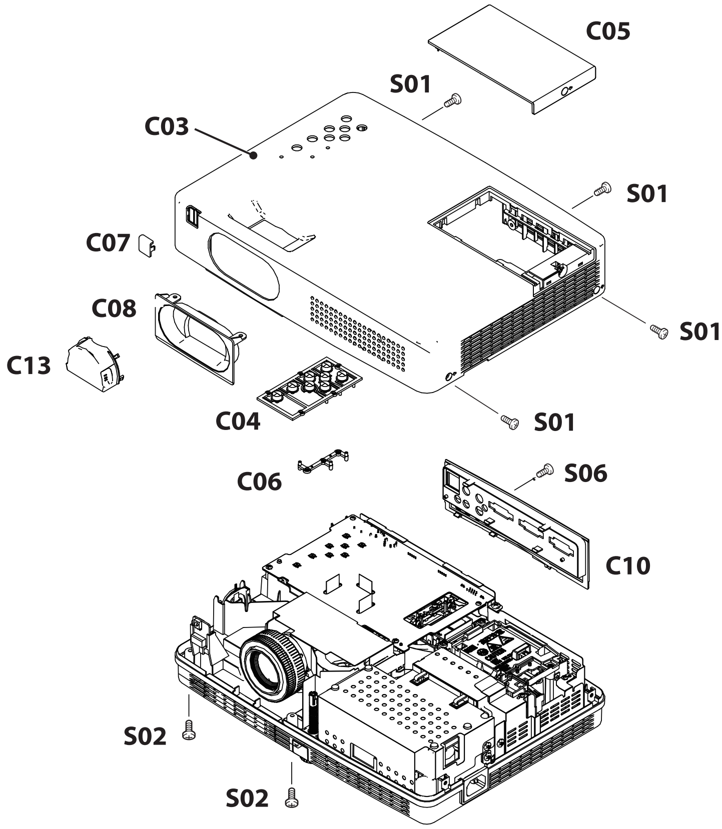


● FA7703 <DC-DC Converter, IC7811>

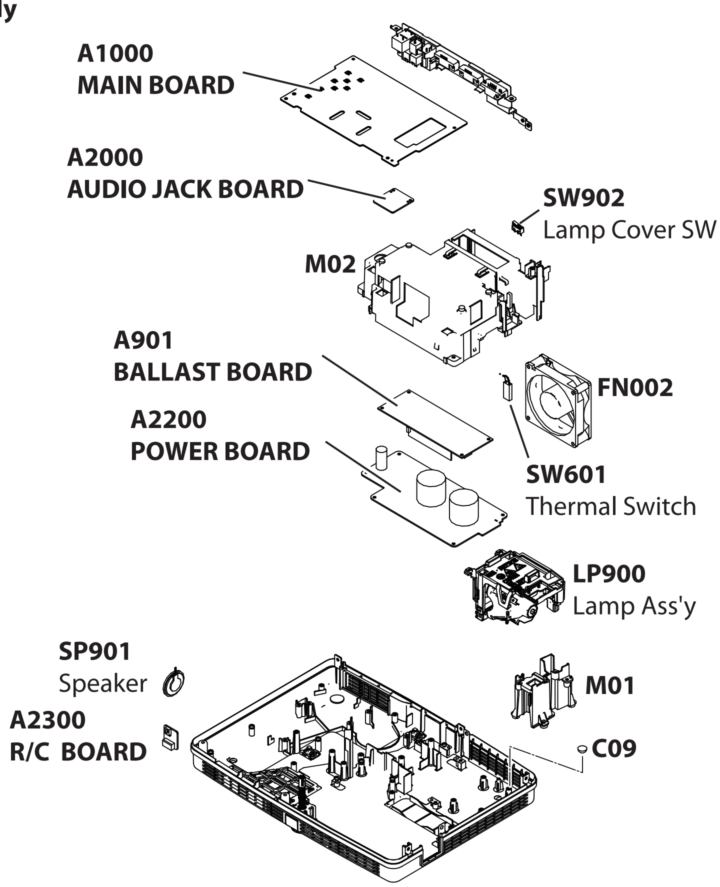


Parts Location Diagrams

Cabinet top assembly

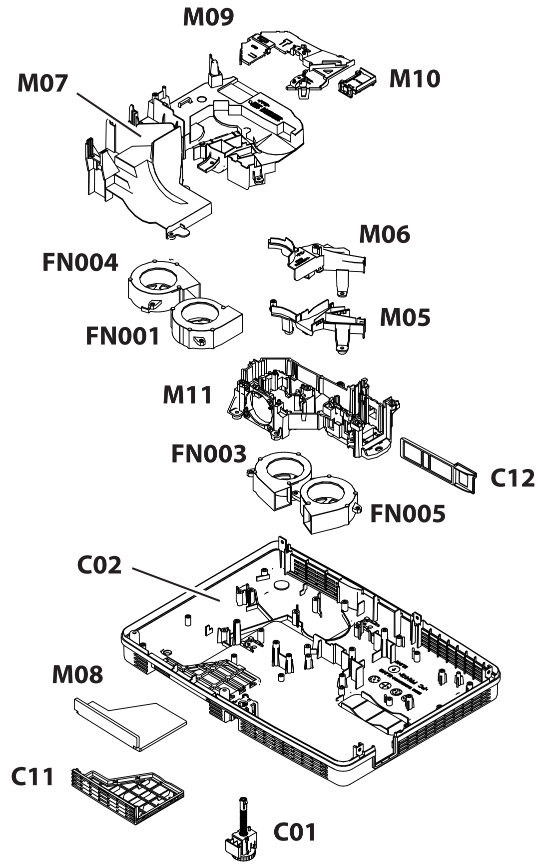


Cabinet bottom-1 assembly

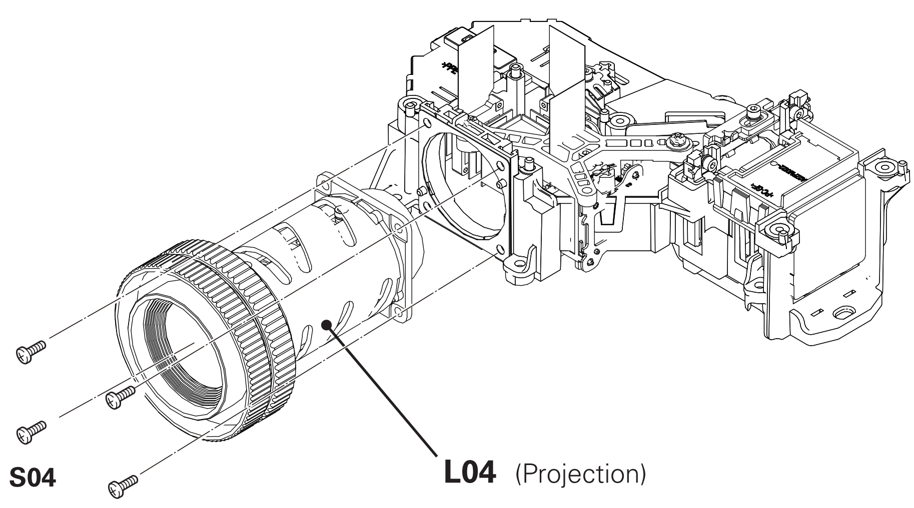


Parts Location Diagrams

Cabinet bottom-2 assembly

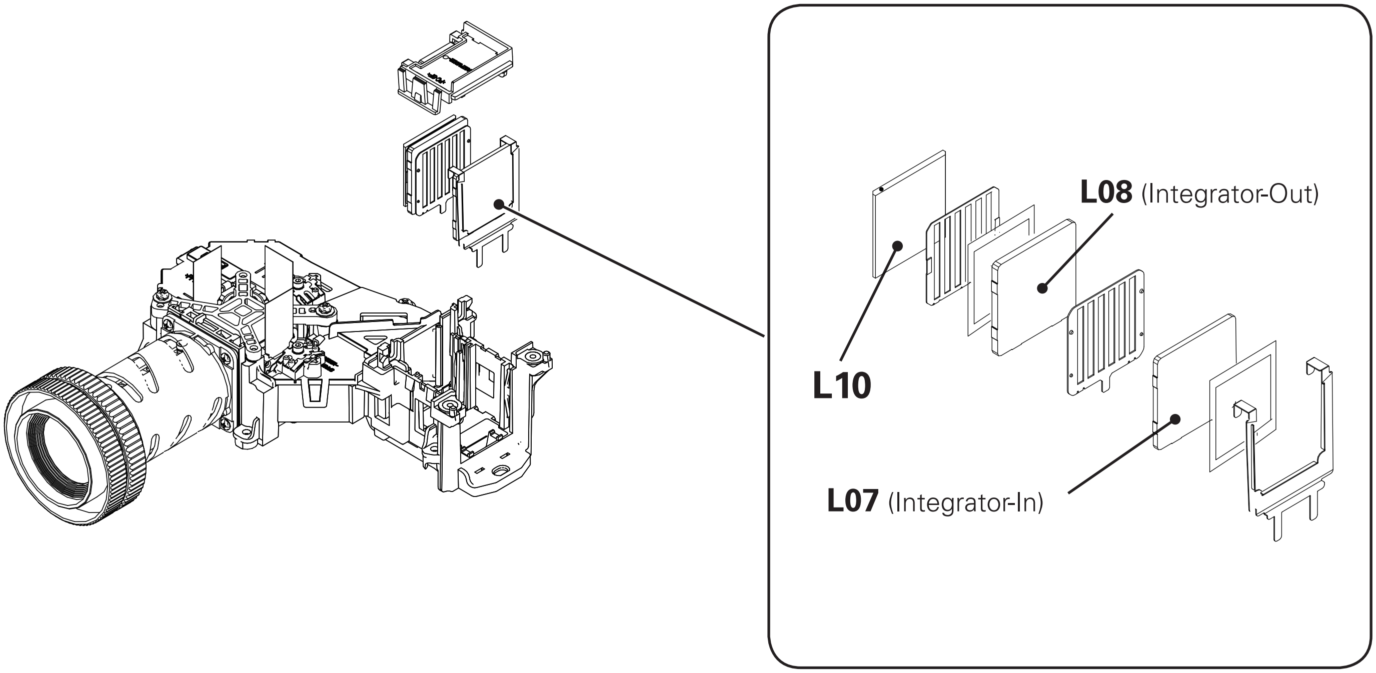


Projection Lens

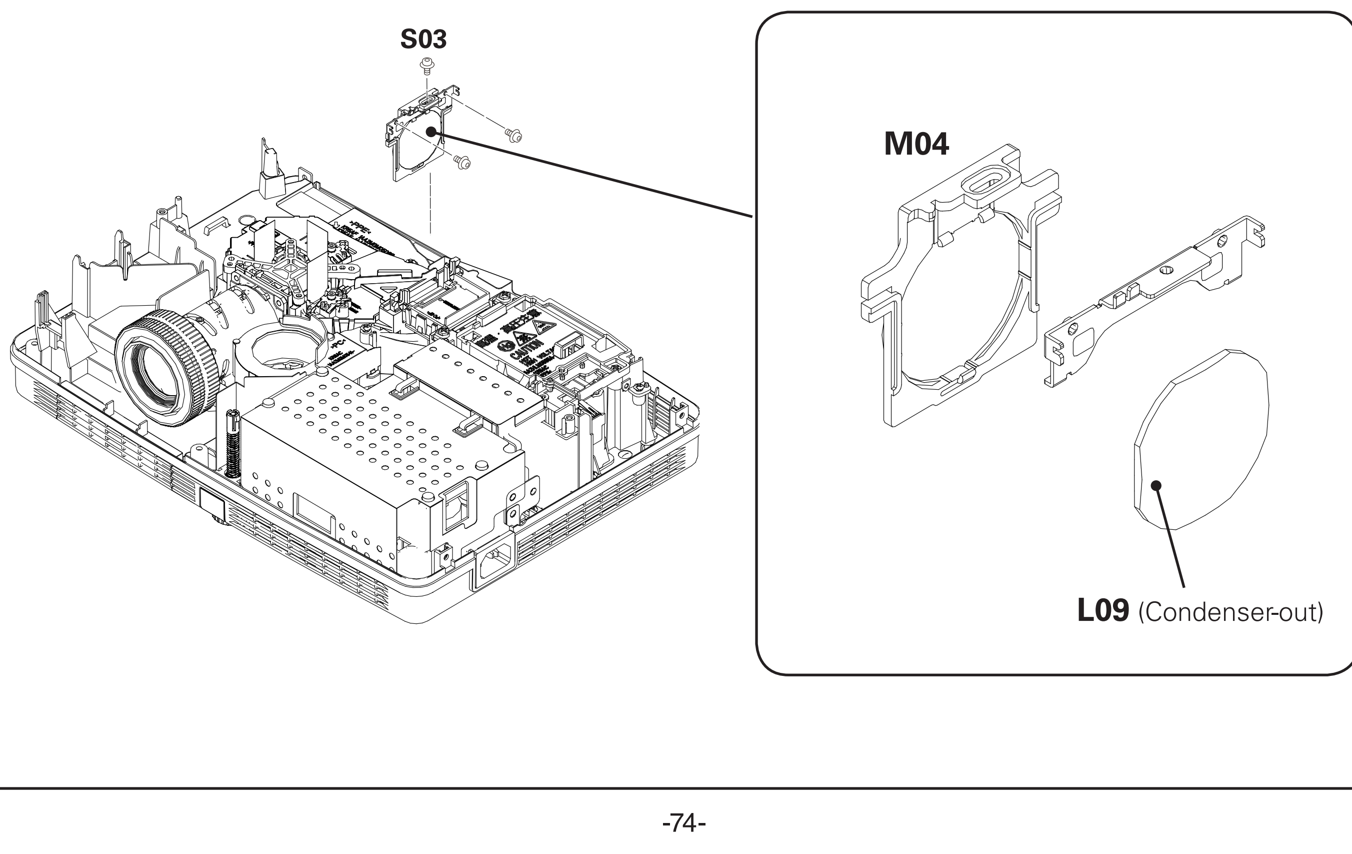


Parts Location Diagrams

Integrator lens assembly

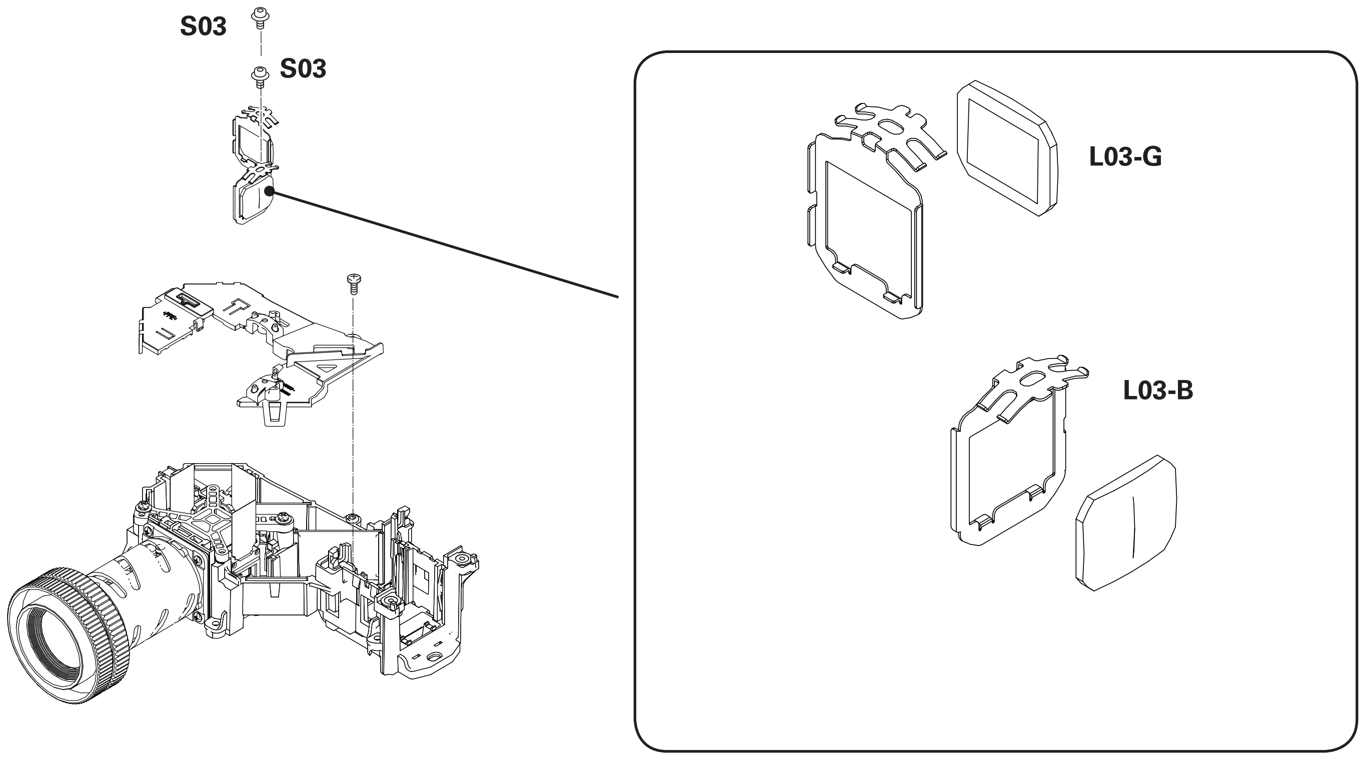


Condenser lens (Out) assembly

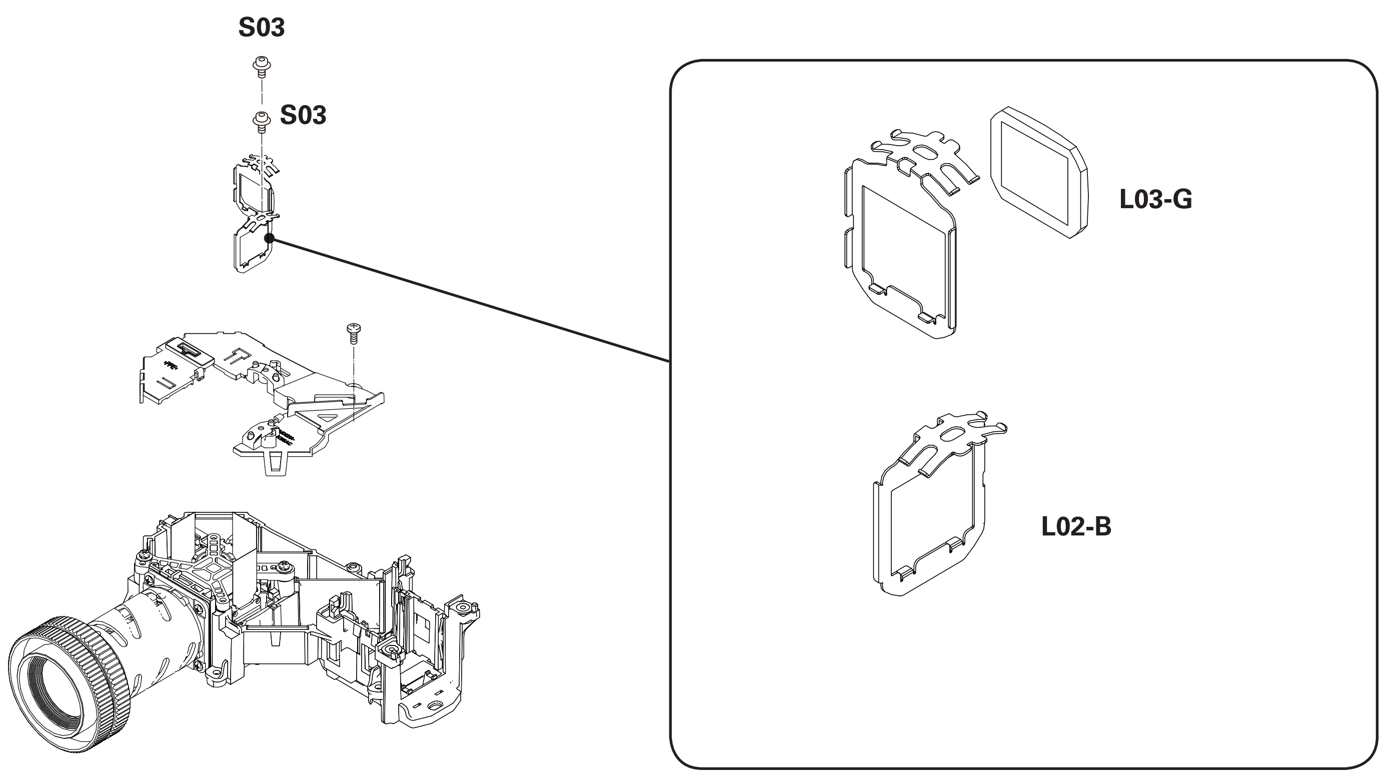


Parts Location Diagrams

Ass'y Condenser In Lens (For KR8-XD220000)

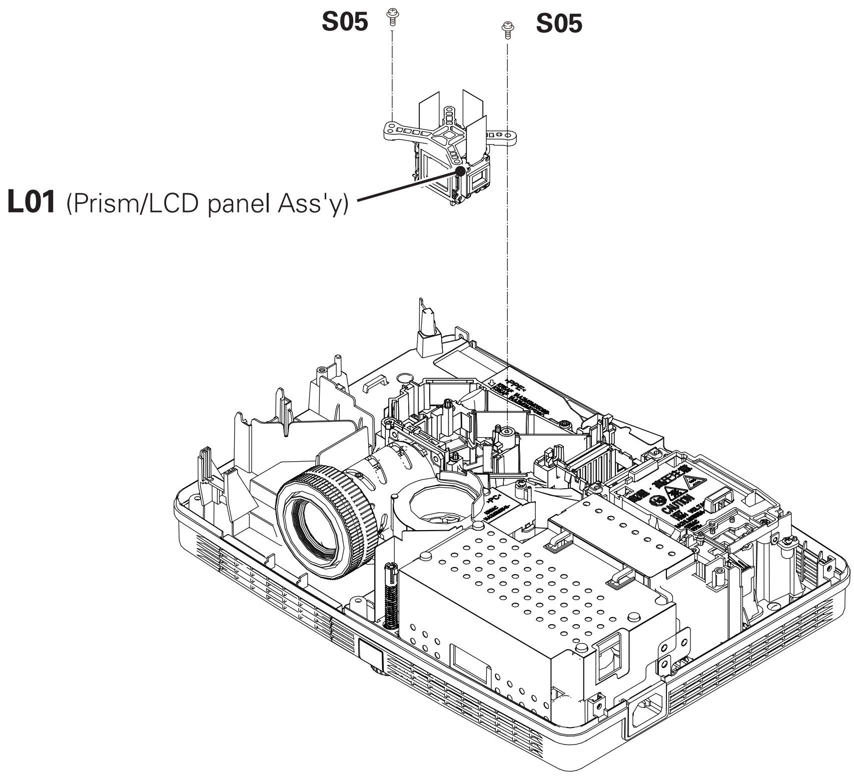


Ass'y Condenser In Lens (For KS8-XD260000)

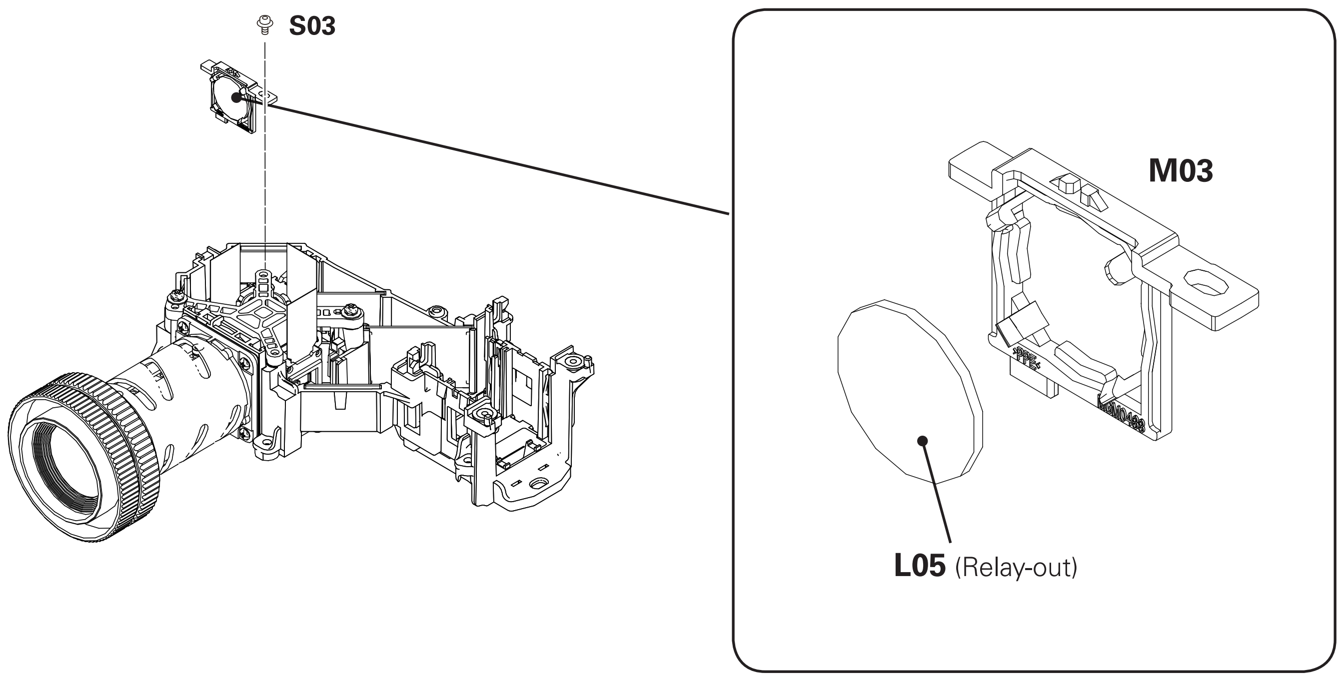


Parts Location Diagrams

LCD Panel/Prism Assembly



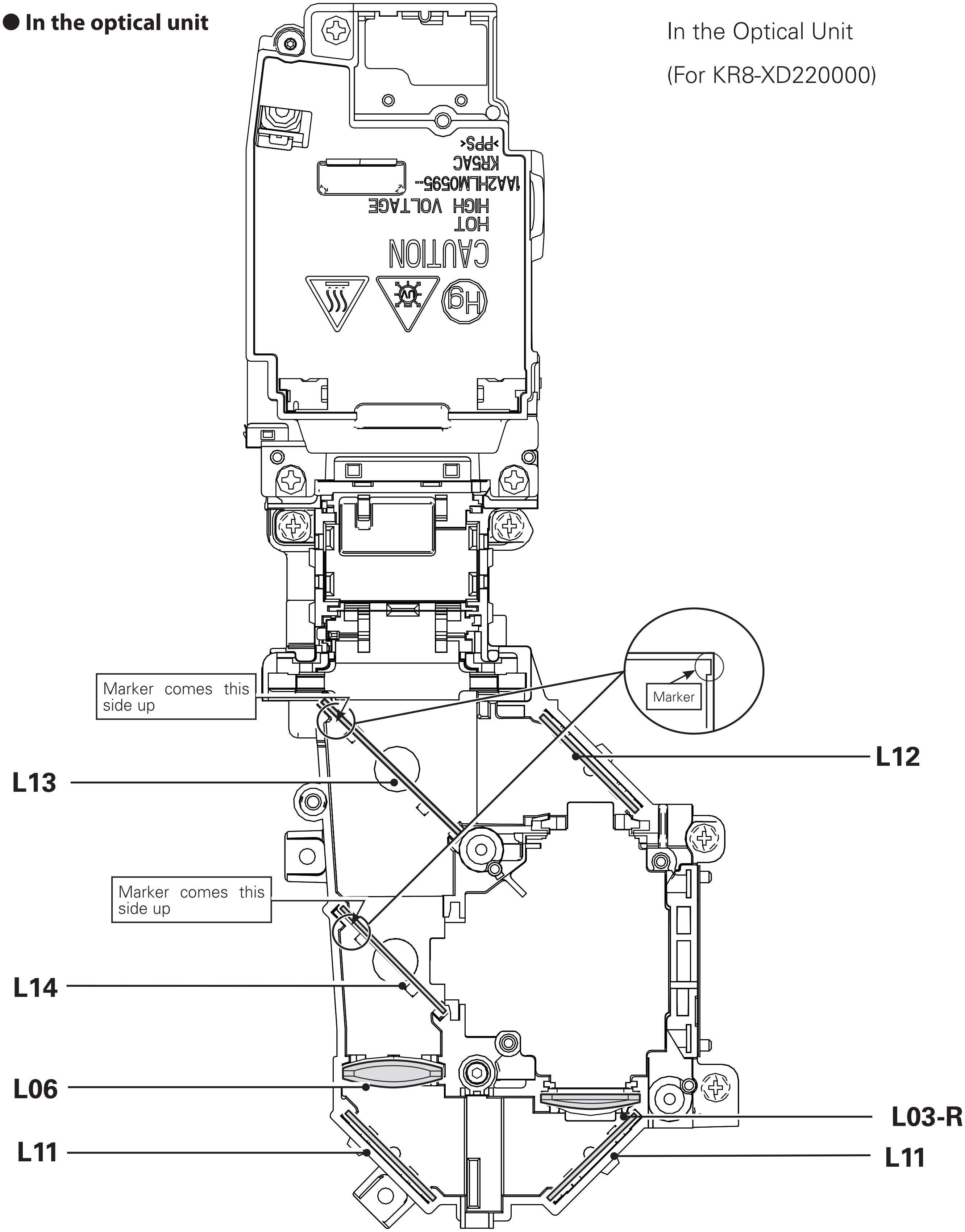
Relay lens (Out) assembly



● **In the optical unit**

In the Optical Unit

(For KR8-XD220000)



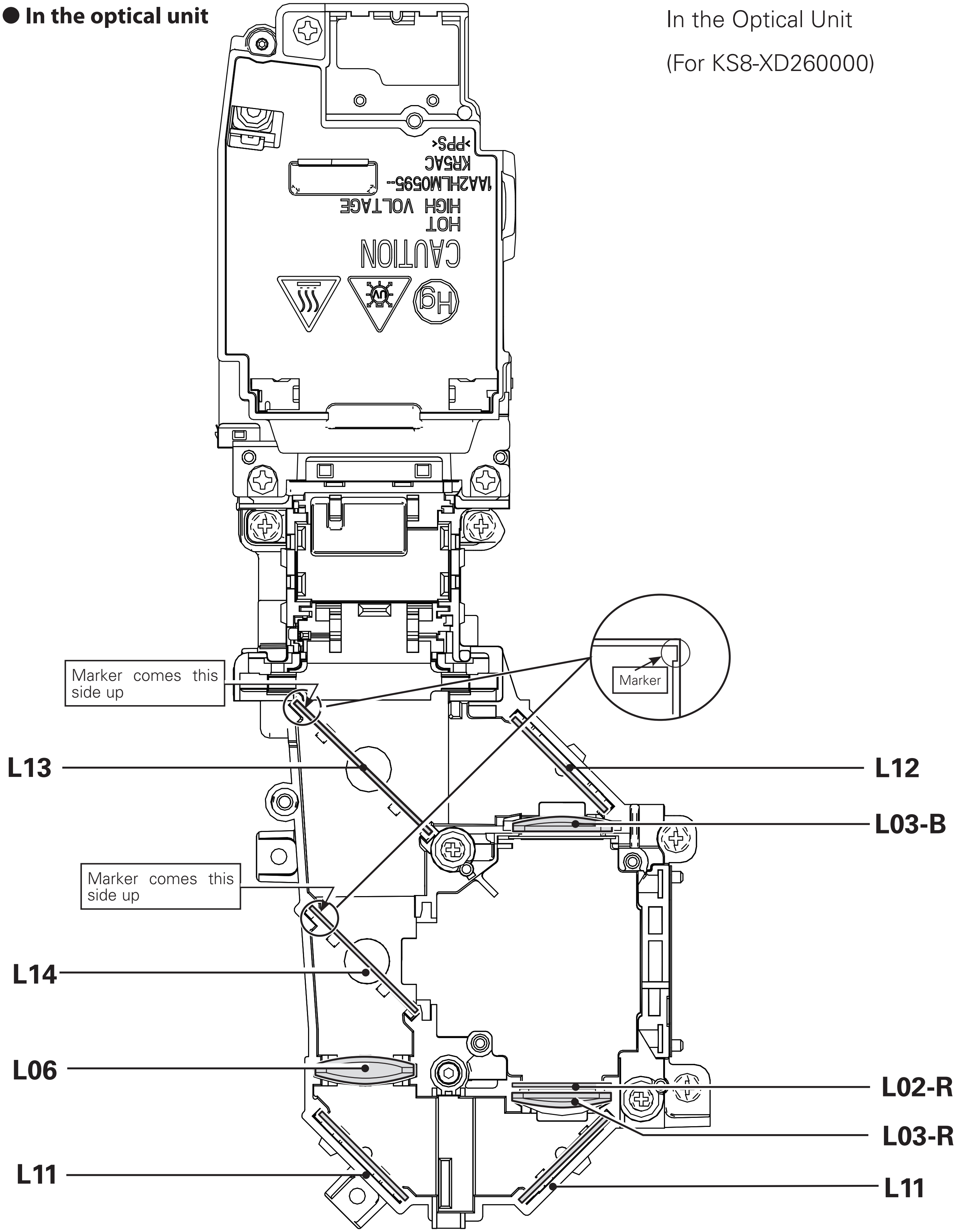
CAUTION:
Part must be placed in specified direction when replacing the optical parts. Please see “Optical Parts Disassembly” for further instructions.

Parts Location Diagrams

● In the optical unit

In the Optical Unit

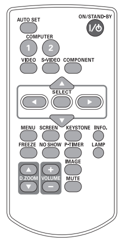
(For KS8-XD260000)



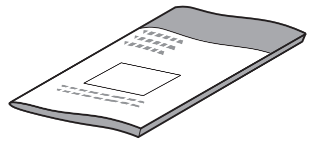
CAUTION:
Part must be placed in specified direction when replacing the optical parts. Please see “Optical Parts Disassembly” for further instructions.

● Accessories (see accessories parts list)

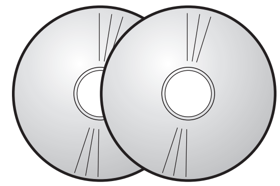
REMOTE CONTROL



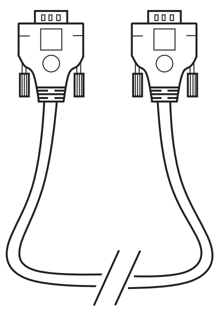
MANUALs



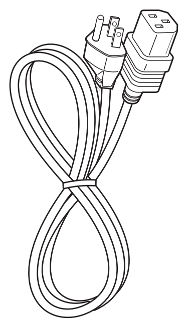
CD-ROMs



VGA CABLE



AC CORD



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
For KR8-XD220000		
PACKING MATERIALS DIRECTORY		
	610 349 7440	CARTON CASE-KR8AC
	610 351 9722	CUSHION BTM-KR8AC
	610 351 9739	CUSHION TOP-KR8AC
	645 097 3987	POLY BAG-0550X0600*NC*R8P
ACCESSORIES DIRECTORY		
OWNER'S MANUAL		
	610 349 7679	CD-ROM,OWNERS MANUAL-KR8AC
	655 003 3475	SAFETY MANUAL-KG5AC
	655 003 6391	SETUP INST-KR8AC
REMOTE CONTROL		
	645 099 3213	ASSY,REMOCON CXZR
	610 344 9944	RC-BATTERY LID-MXAC
AC CORD		
⚠US	645 101 1213	CORD,POWER-1.8MK,US
⚠EU	645 101 1220	CORD,POWER-1.8MK.EU
⚠UK	645 101 1237	CORD,POWER-1.8MK,UK
⚠BRA	645 102 6996	CORD,POWER-2.5MK,BRA
MISCELLANEOUS		
	610 343 0249	STRAP CAP-KT7AC
	945 073 4855	CABLE,INTERFACE VGA
	645 093 1642	CABLE,INTERFACE VGA
	652 002 9552	CABLE,INTERFACE VGA
	945 023 4959	CORE,CLAMP
	652 003 2767	CORE,CLAMP
CABINET PARTS		
C01	610 345 0049	ASSY,ADJ-KR5AC
C02	610 350 7934	CAB BTM LG-KR8AC
C03	610 350 7910	CAB TOP LG SERVICE-KR8AC
C04	610 350 8016	BUTTONCONTROL LG-KR8AC
C05	610 350 8023	COVER LMP LG SERV-KR8AC
C06	610 344 9999	DEC INLAY LED-KR5AC
C07	610 345 0018	DEC INLAY RC-KR5AC
C08	610 350 8030	DEC RING LG-KR8AC
C09	910 325 2477	DEC LEG-PT5EC
C10	610 350 7873	PANEL AV LG-KR8AC
C11	610 350 8054	PANEL NET FRONT LG-KR8AC
C12	610 346 5906	PANEL NET BACK A-KR5AC (Air filter(back))
C13	610 345 0025	COVER LENS-KR5AC
CHASSIS PARTS		
M01	610 345 0087	HOLDER LAMP BASE-KR5AC
M02	610 352 4184	HOLDER POWER(A)-KR5AC
M03	610 343 3721	MTG RELAY OUT-KR5AC
M04	610 343 3738	MTG COND OUT-KR5AC
M05	610 350 4469	MTG DUCT BTM IN LAMP
M06	610 350 4476	MTG DUCT TOP IN LP-KR8AC
M07	610 347 9927	MTG DUCT PANEL-KR5AF
M08	610 345 0223	SPACER FLT FRONT-KR5AC (Air filter(front))
M09	610 343 3707	OPTICAL TOP-KR5AC
M10	610 343 3714	OPTICAL TOP A-KR5AC
M11	610 343 2588	OPTICAL BASE-KR5AC
SCREWS		
S01	411 031 9304	SCR BIN 3X8
S02	411 179 8801	SCR S-TPG BIN 3X10
S03	412 077 8108	SPECIAL SCREW-2.5X6
S04	411 191 6304	SCR BIN 2.5X8
S05	411 192 6709	SCR PAN+SW+W 3X10
S06	411 033 2600	SCR FLT 2X4
OPTICAL PARTS		
L01	610 351 7667	ASSY,PNL/PRISM-KR8AC
L03-R	645 101 2135	ASSY,LENS,CONDENSER(R)
L03-G	645 101 2142	ASSY,LENS,CONDENSER(G)
L03-B	645 101 2159	ASSY,LENS,CONDENSER(B)
L04	645 099 6993	LENS,PROJECTION
	645 102 2967	LENS,PROJECTION
L05	645 096 4671	LENS,RELAY(OUT)
L06	645 099 0571	LENS,RELAY(IN)
L07	645 099 8447	LENS,INTEGRATOR(IN)
L08	645 099 8454	LENS,INTEGRATOR(OUT)
L09	645 099 8478	LENS,CONDENSER(OUT)
L10	945 086 6372	PRISM(PBS)
L11	645 096 4718	MIRROR(R)
L12	645 099 8492	MIRROR(B)
L13	645 100 5144	DICHROIC MIRROR (B)
L14	645 100 5151	DICHROIC MIRROR (G)
SERVICE TOOLS		
	610 343 5596	CD-ROM,PJ SVC TOOL V420

Mechanical Parts List

Key No.	Part No.	Description
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⚠UK	645 101 1237	CORD,POWER-1.8MK,UK
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	645 093 1642	CABLE,INTERFACE VGA
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M08	610 345 0223	SPACER FLT FRONT-KR5AC (Air filter(front))
M09	610 346 4886	OPTICAL TOP-KS5AC
M10	610 343 3714	OPTICAL TOP A-KR5AC
M11	610 346 4909	OPTICAL BASE -KS5AC
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S02	411 179 8801	SCR S-TPG BIN 3X10
S03	412 077 8108	SPECIAL SCREW-2.5X6
S04	411 191 6304	SCR BIN 2.5X8
S05	411 192 6709	SCR PAN+SW+W 3X10
S06	411 033 2600	SCR FLT 2X4
OPTICAL PARTS		
L01	610 351 7674	ASSY,PNL/PRISM-KS8AC
L02-R	645 099 8195	POLARIZED GLASS(IN/R)
L02-B	610 347 7428	POL IN SERVICE-KS5AC
L03-R	645 101 2340	LENS,CONDENSER(B)
L03-G	645 101 2142	ASSY,LENS,CONDENSER(G)
L03-B	645 101 2357	LENS,CONDENSER(R)
L04	645 099 6993	LENS,PROJECTION
	645 102 2967	LENS,PROJECTION
L05	645 096 4671	LENS,RELAY(OUT)
L06	645 099 0571	LENS,RELAY(IN)
L07	645 099 8447	LENS,INTEGRATOR(IN)
L08	645 099 8454	LENS,INTEGRATOR(OUT)
L09	645 099 8478	LENS,CONDENSER(OUT)
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L12	645 099 8492	MIRROR(B)
L13	645 100 5144	DICHROIC MIRROR (B)
L14	645 100 5151	DICHROIC MIRROR (G)
SERVICE TOOLS		
	610 343 5596	CD-ROM,PJ SVC TOOL V420

Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● **Read Description in the parts list**

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC........... Ceramic
MT-PAPER......... Metallized Paper
POLYESTER...... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO.......... Polypropylene
MT-POLYPRO.... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO........ Metallized Composite
STYRENE........... Styrene
TA-SOLID........... Tantalum Oxide Solid Electrolytic
AL-SOLID........... Aluminium Solid Electrolytic
ELECT................ Aluminum Foil Electrolytic
NP-ELECT.......... Non-polarised Electrolytic
OS-SOLID.......... Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID........ Polymerized Organic Semiconductive
DL-ELECT.......... Double Layered Electrolytic
PPS-FILM........... Polyphenylene Sulfide Film
MT-PPS-FILM..... Metalized Polyphenylene Sulfide Film
MT-PEN-FILM..... Metalized Polyethylenenaphthalate Film
CAPACITOR....... Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:

A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:

A: ±0.05%	B: ±0.1%	C: ±0.25%	D: ±0.5%
F: ±1%	G: ±2%	J: ±5%	K: ±10%
M: ±20%	P: +5-15%	Z: 0 ohm	

- 4.7K — Rated value, ohms: K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON........... Carbon
MT-FILM............ Metal Film
OXIDE-MT......... Oxide Metal Film
SOLID................ Composition
MT-GLAZE......... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES.... Fusible
RESISTOR .... Other

Electrical Parts List

Key No.	Part No.	Description		
ASSEMBLED BOARDS				
⚠A2300	655 002 8396	ASSY,PWB R/C KR5AC		
⚠A2200	655 003 7787	ASSY,PWB,POWER KR8AC		
⚠A1000	655 003 7275	ASSY,PWB,MAIN KR8AC		
		(For KR8-XD220000)		
⚠A1000	655 003 7237	ASSY,PWB.MAIN KS8AC		
		(For KS8-XD260000)		
⚠A2000	655 003 9064	ASSY,PWB,AUDIO JACK KR8AC		
OUT OF CIRCUIT BOARD				
⚠L902	945 003 3835	CORE,FERRITE		
	652 003 1098	CORE,CLAMP		
⚠L904	945 003 3835	CORE,FERRITE		
	652 003 1098	CORE,CLAMP		
⚠LP900	610 349 7518	COMPL,OPTICAL LAMP-KR8AC		
⚠A901	645 102 7283	UNIT,BALLAST		
A901A	652 003 2330	CABLE,BALLAST KR8AC		
⚠FN001	645 100 1900	MOTOR,BLW DC 2.4W		
⚠FN002	645 100 1917	MOTOR,FAN DC 2.28W		
⚠FN003	645 100 1894	MOTOR,BLW DC 2.4W		
⚠FN004	645 100 1887	MOTOR,BLW DC 2.4W		
⚠FN005	645 100 1887	MOTOR,BLW DC 2.4W		
SP901	652 002 4397	SPEAKER,8		
⚠SW902	645 097 3925	SWITCH,MICRO 1P-2T		
A2300	**655 002 8396**	**ASSY,PWB R/C KR5AC**		
CAPACITOR				
C2901	303 358 8319	CERAMIC	1U K	10V
C2902	303 157 6615	CERAMIC	470P K	50V
C2903	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C8843	303 298 9612	CERAMIC	0.1U K	16V
RESISTOR				
R2901	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2903	301 255 6513	MT-GLAZE	100 JA	1/10W
R8855	301 162 2219	MT-GLAZE	10 JA	1/10W
R8856	301 162 2219	MT-GLAZE	10 JA	1/10W
MISCELLANEOUS				
A2901	652 002 3352	UNIT,REMOCON,RECEIVER		
A2200	**655 003 7787**	**ASSY,PWB,POWER KR8AC**		
TRANSISTOR				
Q611	305 140 3707	TR 2SK2698		
Q641	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q642	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		

Key No.	Part No.	Description		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q643	305 217 6600	TR 2SK3934		
Q651	305 134 5928	TR 2SA1037AK-T146-R		
	305 147 2218	TR 2SA1037AK-S-T146		
	305 173 9618	TR 2SA1235A1E		
	305 173 9717	TR 2SA1235A1F		
	405 220 3115	TR ISA1235AC1E		
	405 220 3016	TR ISA1235AC1F		
Q691	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
INTEGRATED CIRCUIT				
IC621	409 690 7918	IC FA5550N		
IC631	309 653 7405	IC MR4010-7101		
IC671	409 692 2515	IC TA76L431FB		
CAPACITOR				
⚠C601	404 117 6403	MT-POLYEST	1U K	275V
	404 117 8902	MT-POLYEST	1U K	310V
⚠C603	404 121 9605	CERAMIC	3300P M	250V
⚠C604	404 121 9605	CERAMIC	3300P M	250V
⚠C605	304 073 3709	CERAMIC	100P K	250V
⚠C606	304 073 3709	CERAMIC	100P K	250V
C611	303 222 1326	CERAMIC	1000P K	1K
C612	303 222 1326	CERAMIC	1000P K	1K
C613	303 451 4119	MT-POLYEST	1U K	450V
C614	303 451 4119	MT-POLYEST	1U K	450V
C615	404 118 3609	ELECT	150U M	420V
	404 123 1706	ELECT	150U M	420V
C621	303 336 3510	CERAMIC	0.47U K	16V
C622	304 091 4504	CERAMIC	0.047U K	50V
C623	304 090 1207	CERAMIC	0.01U K	50V
C625	304 090 1207	CERAMIC	0.01U K	50V
C626	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C627	304 091 3309	CERAMIC	2200P K	50V
C631	303 157 4215	CERAMIC	220P J	50V
C632	303 247 6627	CERAMIC	680P K	2K
	404 111 2401	CERAMIC	680P K	2K
C633	303 265 3216	CERAMIC	1000P J	50V
C634	304 091 3309	CERAMIC	2200P K	50V
C641	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C642	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C644	303 417 9912	CERAMIC	4.7U K	25V
	303 452 5016	CERAMIC	4.7U K	25V
C651	304 097 0005	ELECT	100U M	25V
C653	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C661	303 445 4405	ELECT	1800U M	25V
C662	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C663	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C664	303 429 6718	ELECT	1500U M	10V
C665	303 409 9913	ELECT	470U M	16V
C671	304 091 2609	CERAMIC	0.1U K	50V
RESISTOR				
⚠R601	301 242 3914	MT-GLAZE	240K JA	1/2W

Electrical Parts List

Key No.	Part No.	Description		
⚠R602	301 242 3914	MT-GLAZE	240K JA	1/2W
R611	401 353 0311	MT-GLAZE	430K JA	1/3W
R612	401 353 0212	MT-GLAZE	360K JA	1/3W
R613	301 256 6314	MT-GLAZE	47K JA	1/10W
R614	302 106 5508	RESISTER	0.075 KB	5W
R615	402 122 0409	MT-GLAZE	680K DD	1/4W
R616	402 122 0409	MT-GLAZE	680K DD	1/4W
R621	301 326 1812	MT-GLAZE	8.2K DA	1/10W
R622	301 309 8517	MT-GLAZE	330 DA	1/10W
R623	401 360 8010	MT-GLAZE	470 DA	1/10W
R624	301 162 2912	MT-GLAZE	220 JA	1/10W
R625	301 256 5614	MT-GLAZE	47 JA	1/10W
R626	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R627	301 150 5918	MT-GLAZE	10K JA	1/10W
R628	301 150 5918	MT-GLAZE	10K JA	1/10W
R629	301 255 7312	MT-GLAZE	510K JA	1/10W
R631	301 255 7718	MT-GLAZE	11K JA	1/10W
R632	301 253 3712	MT-GLAZE	0.000 ZA	1/4
	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R633	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R634	301 256 1715	MT-GLAZE	33K JA	1/10W
R635	402 122 1802	OXIDE-MT	0.39JA	1W
	302 099 6308	OXIDE-MT	0.39JA	1W
R636	301 162 3018	MT-GLAZE	22K JA	1/10W
R641	301 150 5918	MT-GLAZE	10K JA	1/10W
R642	301 256 6611	MT-GLAZE	68K JA	1/10W
R643	301 150 5918	MT-GLAZE	10K JA	1/10W
R644	301 150 5918	MT-GLAZE	10K JA	1/10W
R646	301 256 7212	MT-GLAZE	18K JA	1/10W
R648	301 256 7212	MT-GLAZE	18K JA	1/10W
R651	301 150 5918	MT-GLAZE	10K JA	1/10W
R652	301 292 1915	MT-GLAZE	22 FA	1/2W
R662	301 152 3219	MT-GLAZE	330 JA	1/10W
R671	301 256 7618	MT-GLAZE	3.9K JA	1/10W
R672	301 150 6212	MT-GLAZE	1K JA	1/10W
R673	301 264 2919	MT-GLAZE	12K FA	1/10W
R674	301 264 7518	MT-GLAZE	2.7K FA	1/10W
R675	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R676	301 264 2810	MT-GLAZE	1.2K FA	1/10W
R683	301 265 0211	MT-GLAZE	390 FA	1/10W
R684	301 264 9314	MT-GLAZE	3.3K FA	1/10W
R691	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R692	301 150 6212	MT-GLAZE	1K JA	1/10W
VARIABLE RESISTOR				
⚠VA601	408 066 1700	VD TND14SE471KB0SLAA0		
TRANSFORMER				
⚠T651	645 097 6483	TRANS,POWER,PULSE		
COIL				
⚠L601	645 099 6825	LINE FILTER		
L611	910 244 3975	CORE		
L612	945 077 6565	INDUCTOR,900U		
	945 084 0273	INDUCTOR,1400U		
	652 003 1821	INDUCTOR,1580UH		
L614	910 244 3975	CORE		
L615	910 244 3975	CORE		
L616	910 244 3975	CORE		
L631	910 078 5954	PIPE CORE		
⚠LF601	645 093 1765	SOCKET,INLET AC 3P		
DIODE				
D611	407 267 4909	DIODE FML-S16S		
D611C	645 098 1715	CORE,FERRITE		
D613	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D631	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D632	307 247 8827	DIODE RF101L2S		
	307 190 4119	DIODE SFPL-52V		
D633	308 061 8806	DIODE EG01C		
D634	307 206 5413	ZD UDZS-TE-178.2B		
D651	307 247 8827	DIODE RF101L2S		
	307 190 4119	DIODE SFPL-52V		
D661	407 269 8400	DIODE FMEN-210A		
	407 267 3100	DIODE SG10SC9M		
D662	407 269 8509	DIODE FMW-2106		
	407 267 3001	DIODE SG10SC6M		
D663	307 247 8827	DIODE RF101L2S		
	307 190 4119	DIODE SFPL-52V		
D664	307 210 5416	DIODE RB551V-30-TE-17		
	408 063 9600	DIODE RB551V-30		
DB611	307 202 7708	DIODE D10XB60		
MISCELLANEOUS				
⚠F601	423 034 4101	FUSE	250V	6.3A
	323 021 7804	FUSE	250V	6.3A
⚠F631	324 006 1305	FUSE	250V	2.5A
Q611F	645 098 1715	CORE,FERRITE		
⚠PC661	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7)		
⚠PC662	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7)		
⚠PC663	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7		
⚠PTH611	308 037 5501	THERMISTOR NTPDB50LDHB0		
⚠PTH641	408 062 4606	TH PRF18BD471QB1RB		
⚠SW601A	652 003 0244	ASSY,WIRE(SW601)		
A1000	**655 003 7275**	**ASSY,PWB,MAIN KR8AC (For KR8-XD220000)**		
A1000	**655 003 7237**	**ASSY,PWB,MAIN KS8AC (For KS8-XD260000)**		
TRANSISTOR				
Q1001	406 021 7804	TR 2SC4617		
Q1002	406 021 7804	TR 2SC4617		
Q1003	305 217 7815	TR HN1B04FE-Y TE85L		
Q1004	305 217 7815	TR HN1B04FE-Y TE85L		
Q1005	406 021 7804	TR 2SC4617		
Q1006	305 217 7815	TR HN1B04FE-Y TE85L		
Q1007	406 021 7804	TR 2SC4617		
Q1008	406 021 7804	TR 2SC4617		
Q1010	406 021 7804	TR 2SC4617		
Q1011	406 021 7804	TR 2SC4617		
Q1012	406 021 7804	TR 2SC4617		
Q2001	406 021 7804	TR 2SC4617		
Q2025	406 021 7804	TR 2SC4617		
Q3582	305 217 6917	TR TPC6107 TE85L		
Q3583	406 021 7804	TR 2SC4617		
Q3601	406 021 7804	TR 2SC4617		
Q4012	305 134 5928	TR 2SA1037AK-T146-R		
	305 147 2218	TR 2SA1037AK-S-T146		
	305 173 9618	TR 2SA1235A1E		
	305 173 9717	TR 2SA1235A1F		
	405 220 3115	TR ISA1235AC1E		
	405 220 3016	TR ISA1235AC1F		
Q4014	305 217 7815	TR HN1B04FE-Y TE85L		
Q5030	305 211 1918	TR RJU002N06		

Electrical Parts List

Key No.	Part No.	Description		
Q5031	405 221 7914	TR HN1C01FE-Y		
Q5033	406 021 7804	TR 2SC4617		
Q5035	405 221 7914	TR HN1C01FE-Y		
Q5061	405 221 7914	TR HN1C01FE-Y		
Q5062	405 221 7914	TR HN1C01FE-Y		
Q5306	406 021 7804	TR 2SC4617		
Q5700	305 217 7815	TR HN1B04FE-Y TE85L		
Q5701	305 174 1819	TR CPH3424-TL-E		
Q5702	305 047 9010	TR 2SB1204-S-TL-E		
Q5703	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5751	305 217 6917	TR TPC6107 TE85L		
Q5752	406 021 7804	TR 2SC4617		
Q5830	305 217 6917	TR TPC6107 TE85L		
Q5840	406 021 7804	TR 2SC4617		
Q6845	405 221 7914	TR HN1C01FE-Y		
Q6846	405 221 7914	TR HN1C01FE-Y		
Q7801	405 221 7914	TR HN1C01FE-Y		
Q7802	405 221 7914	TR HN1C01FE-Y		
Q7812	305 217 8515	TR RSQ025P03-TR		
Q7813	305 217 7815	TR HN1B04FE-Y TE85L		
Q7842	305 217 7815	TR HN1B04FE-Y TE85L		
Q7862	305 217 8515	TR RSQ025P03-TR		
Q7864	305 217 7815	TR HN1B04FE-Y TE85L		
INTEGRATED CIRCUIT				
IC1051	409 697 3913	IC LE24C023M-TLM-E		
IC1371	410 656 8600	IC 24AA64T-I/MS		
IC1424	410 666 5804	IC UPC358GR-9LG-E1-A		
IC301	309 670 8419	IC PW190-10L		
IC302	309 487 5727	IC TC7SZ125FU		
IC3801	409 699 2815	IC MAX232ECPWR		
IC3852	309 246 9710	IC LA6358NM-TE-L-E		
IC4001	410 686 4702	IC EL5306IUZ-T7		
IC4701	309 428 8428	IC TC7WT125FU-TE12L		
IC4891	309 395 5915	IC TC7SH00FU-(TE85L)		
IC5001	410 693 3903	IC LC75344M-D-TLM-E		
IC5002	309 438 5513	IC TC4052BFT		
IC5031	309 594 1916	IC LM4889MMX		
IC5081	309 578 6210	IC PQ1M505M2SPQ		
IC5542	410 689 7502	IC XC6216B902MR		
IC5621	410 651 0104	IC R1131D101B-TR-F		
IC5821	409 689 2115	IC MP2106DK		
IC5841	409 694 5316	IC TJ3965D-2.5V-8L		
IC5861	409 689 2115	IC MP2106DK		
IC592	309 461 7822	IC PQ20WZ11		
IC7811	309 675 1316	IC FA7703V-H1		
IC7841	309 461 7822	IC PQ20WZ11		
IC801	410 707 2601	IC M29W320ET70N6EKR8AC		
IC841	409 699 3010	IC PT7M7809STE		
IC8801	410 708 8206	IC PIC18F67J60-I/PT-KR8AC		
IC8802	410 656 8600	IC 24AA64T-I/MS		
IC8803	410 681 5506	IC LE25FU106BMA-TLM-H		
CAPACITOR				
C1001	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1002	303 398 3312	ELECT	47U M	10V
C1004	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1006	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1007	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1008	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1009	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1011	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1012	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1014	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1016	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1017	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1018	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1019	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1049	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1061	303 398 3312	ELECT	47U M	10V
C1092	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1103	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1105	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1331	403 455 5713	CERAMIC	15P J	50V
	403 455 5218	CERAMIC	15P J	50V
	303 305 8515	CERAMIC	15P J	50V
C1332	403 455 5713	CERAMIC	15P J	50V
	403 455 5218	CERAMIC	15P J	50V
	303 305 8515	CERAMIC	15P J	50V
C1371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1423	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1424	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1427	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1428	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1429	403 467 0911	CERAMIC	0.1U K	25V
C1431	403 467 0911	CERAMIC	0.1U K	25V
C1432	403 467 0911	CERAMIC	0.1U K	25V
C1441	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C1442	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V

Electrical Parts List

Key No.	Part No.	Description		
	403 478 5912	CERAMIC	1U K	25V
C1871	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2001	303 392 1215	ELECT	47U M	6.3V
C2025	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C2026	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2031	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C2041	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C2891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C302	303 392 1215	ELECT	47U M	6.3V
C303	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C304	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C306	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C307	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C308	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C309	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C310	303 384 4712	TA-SOLID	47U M	6.3V
C311	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C312	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C313	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C314	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C315	303 384 4712	TA-SOLID	47U M	6.3V
C316	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C318	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C319	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V

Key No.	Part No.	Description		
	303 282 5118	CERAMIC	470P K	50V
C320	303 392 1215	ELECT	47U M	6.3V
C321	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C322	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C323	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C326	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C327	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C328	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C329	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C330	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C331	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C332	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C333	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C334	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C335	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C336	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C337	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C338	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C339	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C341	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C342	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C343	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C344	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
C346	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C347	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C348	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3501	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3502	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3503	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3504	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3506	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C3508	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C3509	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3513	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C352	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3527	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C353	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3531	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3532	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3533	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3534	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3536	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C3538	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C3539	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C354	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3541	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3543	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C355	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3557	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C356	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3562	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3563	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3564	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3566	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C3568	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C3569	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C357	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3571	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3573	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C358	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3587	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3598	303 394 5815	CERAMIC	4.7U K	16V
	303 441 5515	CERAMIC	4.7U K	16V
C3599	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C361	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C362	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C363	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C364	303 454 0613	CERAMIC	10000P K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C365	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C366	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C367	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C368	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C369	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C370	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C372	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C373	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C374	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C377	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C378	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C379	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C380	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3801	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3802	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3803	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3804	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C382	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C383	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C384	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C385	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C3857	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3858	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C3859	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3861	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C388	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4001	303 382 7814	CERAMIC	2.2U K	10V
	303 394 5211	CERAMIC	22U K	10V
C4002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4003	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4004	303 382 7814	CERAMIC	2.2U K	10V
	303 394 5211	CERAMIC	22U K	10V
C403	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C406	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C407	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C413	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C414	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C417	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C421	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C426	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C427	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C431	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C432	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C433	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C434	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C439	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C443	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C480	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V

Electrical Parts List

Key No.	Part No.	Description		
C481	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5002	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5003	303 398 3312	ELECT	47U M	10V
C5006	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5007	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5008	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C501	303 298 9612	CERAMIC	0.1U K	16V
C5010	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5011	303 392 5015	CERAMIC	22U M	6.3V
	403 455 9216	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C5012	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5013	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5014	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C502	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5024	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5025	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5026	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C503	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5031	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5032	303 336 3510	CERAMIC	0.47U K	16V
	403 459 8017	CERAMIC	0.47U K	16V
	304 110 9800	CERAMIC	0.47U K	16V
C5033	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5037	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5038	303 454 0613	CERAMIC	10000P K	50V
C5039	303 454 0613	CERAMIC	10000P K	50V
C504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5044	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C506	303 298 9612	CERAMIC	0.1U K	16V
C5061	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5069	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C507	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C508	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C5081	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5082	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5083	303 392 1215	ELECT	47U M	6.3V
C5084	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5087	303 381 5217	ELECT	220U M	6.3V
C509	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C5098	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C511	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C512	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C513	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C514	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C516	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C517	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C518	303 342 3313	CERAMIC	0.1U K	25V
C519	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C521	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C523	303 342 3313	CERAMIC	0.1U K	25V
C524	303 342 3313	CERAMIC	0.1U K	25V
C527	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C528	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5304	303 454 0613	CERAMIC	10000P K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C531	303 298 9612	CERAMIC	0.1U K	16V
C5315	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5316	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C532	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C533	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5333	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V

Key No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C5334	303 453 6814	CERAMIC	68P J	50V
	303 454 0019	CERAMIC	68P J	50V
	303 320 0419	CERAMIC	68P J	50V
C5336	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C5337	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C536	303 298 9612	CERAMIC	0.1U K	16V
C537	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C538	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C539	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C541	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C542	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C543	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C544	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C546	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C547	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C548	303 342 3313	CERAMIC	0.1U K	25V
C549	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C551	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C553	303 342 3313	CERAMIC	0.1U K	25V
C554	303 342 3313	CERAMIC	0.1U K	25V
C5541	303 437 4614	CERAMIC	10U K	25V
C5542	403 467 0911	CERAMIC	0.1U K	25V
C557	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C558	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C561	303 298 9612	CERAMIC	0.1U K	16V
C562	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5621	303 383 5215	CERAMIC	4.7U K	6.3V
C5623	303 383 5215	CERAMIC	4.7U K	6.3V
C563	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C566	303 298 9612	CERAMIC	0.1U K	16V
C567	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C568	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C569	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C5705	303 376 3112	ELECT	100U M	25V
C5706	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5707	303 324 6417	CERAMIC	0.022U K	16V
C5708	303 397 5713	ELECT	100U M	10V
C571	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C572	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C573	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C574	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5752	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C576	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C577	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C578	303 342 3313	CERAMIC	0.1U K	25V
C579	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C581	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5821	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5822	303 157 7018	CERAMIC	1800P K	50V
C5823	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5824	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5825	303 397 5713	ELECT	100U M	10V
C5826	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5827	303 392 5015	CERAMIC	22U M	6.3V
	403 455 9216	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C583	303 342 3313	CERAMIC	0.1U K	25V
C584	303 342 3313	CERAMIC	0.1U K	25V
C5840	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C5842	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C5844	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5845	403 467 0911	CERAMIC	0.1U K	25V
C5860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5861	303 324 6417	CERAMIC	0.022U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C5862	303 279 5114	CERAMIC	3300P K	50V
C5863	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5864	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5865	303 397 5713	ELECT	100U M	10V
C5866	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5867	303 392 5015	CERAMIC	22U M	6.3V
	403 455 9216	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C587	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C588	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C596	403 467 0911	CERAMIC	0.1U K	25V
C597	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C598	403 467 0911	CERAMIC	0.1U K	25V
C599	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C6801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7811	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C7812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7813	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C7814	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C7817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7818	303 454 1917	CERAMIC	4700P K	50V
C7841	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C7842	403 467 0911	CERAMIC	0.1U K	25V
C7843	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C7844	403 467 0911	CERAMIC	0.1U K	25V
C7863	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C7868	303 454 1917	CERAMIC	4700P K	50V
C801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C841	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C842	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C843	303 454 0613	CERAMIC	10000P K	50V
C844	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
C8801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8806	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8807	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8808	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8809	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8810	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8811	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8813	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8814	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8815	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8818	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8819	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8820	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8821	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8822	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8824	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8830	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8831	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8832	303 454 0613	CERAMIC	10000P K	50V

Electrical Parts List

Key No.	Part No.	Description			
	303 441 9810	CERAMIC	0.01U K	50V
C9875	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C9878	303 324 6417	CERAMIC	0.022U K	16V
C9882	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9883	303 392 1215	ELECT	47U M	6.3V
C9884	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9885	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9888	303 376 6212	CERAMIC	0.22U K	10V
C9889	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
R1002	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1004	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1013	301 224 8814	MT-GLAZE	100 JA	1/16W
R1014	301 225 1814	MT-GLAZE	47 JA	1/16W
R1016	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1025	301 260 4214	MT-GLAZE	82 JA	1/3W
R1026	301 260 4214	MT-GLAZE	82 JA	1/3W
R1028	301 260 4214	MT-GLAZE	82 JA	1/3W
R1029	301 225 2019	MT-GLAZE	680 JA	1/16W
R1031	301 225 1418	MT-GLAZE	47K JA	1/16W
R1032	301 225 1814	MT-GLAZE	47 JA	1/16W
R1034	301 225 1814	MT-GLAZE	47 JA	1/16W
R1035	301 225 1814	MT-GLAZE	47 JA	1/16W
R1036	301 225 1814	MT-GLAZE	47 JA	1/16W
R1037	301 225 1814	MT-GLAZE	47 JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
R1039	301 225 1814	MT-GLAZE	47 JA	1/16W
R1040	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
R1043	301 224 9019	MT-GLAZE	10K JA	1/16W
R1044	301 224 9019	MT-GLAZE	10K JA	1/16W
R1049	301 224 8814	MT-GLAZE	100 JA	1/16W
R1050	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W
R1060	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W
R1063	301 225 2019	MT-GLAZE	680 JA	1/16W
R1064	301 225 2019	MT-GLAZE	680 JA	1/16W
R1065	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1066	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1069	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1070	301 263 7420	MT-GLAZE	75 JA	1/16W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W
R1075	301 263 7420	MT-GLAZE	75 JA	1/16W
R1077	301 263 7420	MT-GLAZE	75 JA	1/16W
R1078	301 263 7420	MT-GLAZE	75 JA	1/16W
R1079	301 263 7420	MT-GLAZE	75 JA	1/16W
R1080	301 263 7420	MT-GLAZE	75 JA	1/16W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W
R1083	301 225 1814	MT-GLAZE	47 JA	1/16W
R1084	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1085	301 225 1814	MT-GLAZE	47 JA	1/16W
R1088	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W
R1101	301 224 8814	MT-GLAZE	100 JA	1/16W
R1111	301 260 4115	MT-GLAZE	75 JA	1/3W
R1134	301 225 1814	MT-GLAZE	47 JA	1/16W
R1215	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1217	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1331	301 224 9415	MT-GLAZE	1M JA	1/16W
R1421	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1422	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1434	301 265 5018	MT-GLAZE	750 FA	1/10
R1435	401 344 9415	MT-GLAZE	18K DA	1/16W
R1436	401 344 5110	MT-GLAZE	15K DA	1/16W
R1439	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R1442	301 224 9217	MT-GLAZE	15K JA	1/16W
R1444	301 235 0012	MT-GLAZE	7.5K JA	1/16W
R1446	301 235 0012	MT-GLAZE	7.5K JA	1/16W
R1447	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R1448	301 224 9019	MT-GLAZE	10K JA	1/16W
R2002	301 224 8814	MT-GLAZE	100 JA	1/16W
R2004	301 224 8814	MT-GLAZE	100 JA	1/16W
R2006	301 260 4115	MT-GLAZE	75 JA	1/3W
R2007	301 225 1814	MT-GLAZE	47 JA	1/16W
R2008	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R2009	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2022	301 224 8814	MT-GLAZE	100 JA	1/16W
R2024	301 224 8814	MT-GLAZE	100 JA	1/16W
R2025	301 224 9415	MT-GLAZE	1M JA	1/16W
R2026	301 224 8913	MT-GLAZE	100K JA	1/16W
R2027	301 224 8913	MT-GLAZE	100K JA	1/16W
R2028	301 224 9910	MT-GLAZE	22K JA	1/16W
R2031	301 224 8913	MT-GLAZE	100K JA	1/16W
R2032	301 224 8814	MT-GLAZE	100 JA	1/16W
R2041	301 224 8913	MT-GLAZE	100K JA	1/16W
R2054	301 224 8814	MT-GLAZE	100 JA	1/16W
R2892	301 224 8814	MT-GLAZE	100 JA	1/16W
R300	301 224 9019	MT-GLAZE	10K JA	1/16W
R302	301 227 5612	MT-GLAZE	8.2K JA	1/16W
R303	301 224 9316	MT-GLAZE	1K JA	1/16W
R304	301 224 9316	MT-GLAZE	1K JA	1/16W
R306	401 342 7314	MT-GLAZE	23.2K FA	1/16W
R307	301 224 9712	MT-GLAZE	22 JA	1/16W
R308	301 224 9712	MT-GLAZE	22 JA	1/16W
R309	301 224 9316	MT-GLAZE	1K JA	1/16W
R311	301 224 9316	MT-GLAZE	1K JA	1/16W
R315	301 225 1814	MT-GLAZE	47 JA	1/16W
R317	301 225 1814	MT-GLAZE	47 JA	1/16W
R318	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R319	301 224 9019	MT-GLAZE	10K JA	1/16W
R320	301 225 1814	MT-GLAZE	47 JA	1/16W
R321	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R322	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R323	301 225 1814	MT-GLAZE	47 JA	1/16W
R339	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R341	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R342	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R343	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R344	301 225 1814	MT-GLAZE	47 JA	1/16W
R345	301 225 1814	MT-GLAZE	47 JA	1/16W
R346	301 225 1814	MT-GLAZE	47 JA	1/16W
R347	301 224 8814	MT-GLAZE	100 JA	1/16W
R348	301 224 8814	MT-GLAZE	100 JA	1/16W
R349	301 225 1814	MT-GLAZE	47 JA	1/16W
R350	301 263 7420	MT-GLAZE	75 JA	1/16W
R3502	301 225 1418	MT-GLAZE	47K JA	1/16W
R351	301 224 8814	MT-GLAZE	100 JA	1/16W
R352	301 224 8814	MT-GLAZE	100 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R353	301 263 7420	MT-GLAZE	75 JA	1/16W
R3532	301 225 1418	MT-GLAZE	47K JA	1/16W
R354	301 224 8814	MT-GLAZE	100 JA	1/16W
R355	301 224 8814	MT-GLAZE	100 JA	1/16W
R3562	301 225 1418	MT-GLAZE	47K JA	1/16W
R3585	301 224 9019	MT-GLAZE	10K JA	1/16W
R3586	301 224 9316	MT-GLAZE	1K JA	1/16W
R3587	301 224 9019	MT-GLAZE	10K JA	1/16W
R3588	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R359	301 225 0015	MT-GLAZE	270 JA	1/16W
R360	301 225 0015	MT-GLAZE	270 JA	1/16W
R3601	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3602	301 224 9019	MT-GLAZE	10K JA	1/16W
R3603	301 224 9019	MT-GLAZE	10K JA	1/16W
R361	301 256 1517	MT-GLAZE	13K JA	1/10W
R3621	301 224 9019	MT-GLAZE	10K JA	1/16W
R3622	301 224 9019	MT-GLAZE	10K JA	1/16W
R3623	301 224 9019	MT-GLAZE	10K JA	1/16W
R3626	301 224 9019	MT-GLAZE	10K JA	1/16W
R3628	301 224 9019	MT-GLAZE	10K JA	1/16W
R363	301 224 9316	MT-GLAZE	1K JA	1/16W
R364	301 224 9316	MT-GLAZE	1K JA	1/16W
R366	301 224 9316	MT-GLAZE	1K JA	1/16W
R367	301 225 1814	MT-GLAZE	47 JA	1/16W
R368	301 225 1814	MT-GLAZE	47 JA	1/16W
R369	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R371	301 229 3913	MT-GLAZE	180 JA	1/16W
R372	301 229 3913	MT-GLAZE	180 JA	1/16W
R373	301 229 3913	MT-GLAZE	180 JA	1/16W
R374	301 229 3913	MT-GLAZE	180 JA	1/16W
R375	301 294 3313	MT-GLAZE	15K FA	1/16W
R378	301 224 9019	MT-GLAZE	10K JA	1/16W
R3801	301 225 8110	MT-GLAZE	10 JA	1/16W
R3802	301 225 8110	MT-GLAZE	10 JA	1/16W
R3803	301 225 8110	MT-GLAZE	10 JA	1/16W
R3804	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R3806	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R382	301 263 7420	MT-GLAZE	75 JA	1/16W
R3853	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3854	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3856	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3857	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3858	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3861	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3863	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3865	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3868	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R388	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R391	301 224 9019	MT-GLAZE	10K JA	1/16W
R396	301 226 1516	MT-GLAZE (For KR8-XD220000)	0.000 ZA	1/16W
R395	301 224 9019	MT-GLAZE (For KS8-XD260000)	10K JA	1/16W
R398	301 224 8814	MT-GLAZE	100 JA	1/16W
R4001	301 224 8814	MT-GLAZE	100 JA	1/16W
R4014	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4016	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4017	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4023	301 224 9019	MT-GLAZE	10K JA	1/16W
R4024	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R406	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R407	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4072	301 224 8814	MT-GLAZE	100 JA	1/16W
R4077	301 224 8814	MT-GLAZE	100 JA	1/16W
R408	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R412	301 225 1814	MT-GLAZE	47 JA	1/16W
R414	301 225 1814	MT-GLAZE	47 JA	1/16W
R416	301 225 1814	MT-GLAZE	47 JA	1/16W
R418	301 225 1814	MT-GLAZE	47 JA	1/16W
R419	301 225 1814	MT-GLAZE	47 JA	1/16W
R422	301 225 1814	MT-GLAZE	47 JA	1/16W
R423	301 225 1814	MT-GLAZE	47 JA	1/16W
R424	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4834	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4862	301 229 3913	MT-GLAZE	180 JA	1/16W
R4863	301 229 3913	MT-GLAZE	180 JA	1/16W
R5007	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5008	301 224 8913	MT-GLAZE	100K JA	1/16W
R501	301 224 8814	MT-GLAZE	100 JA	1/16W
R5010	301 224 8913	MT-GLAZE	100K JA	1/16W
R5011	301 224 8913	MT-GLAZE	100K JA	1/16W
R5015	301 224 8913	MT-GLAZE	100K JA	1/16W
R5016	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5018	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5031	301 224 8814	MT-GLAZE	100 JA	1/16W
R5032	301 224 8814	MT-GLAZE	100 JA	1/16W
R5033	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5034	301 224 9316	MT-GLAZE	1K JA	1/16W
R5036	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5037	301 224 9316	MT-GLAZE	1K JA	1/16W
R5038	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5039	301 229 7218	MT-GLAZE	18K JA	1/16W
R5040	301 224 9019	MT-GLAZE	10K JA	1/16W
R5041	301 224 9316	MT-GLAZE	1K JA	1/16W
R5042	301 224 9316	MT-GLAZE	1K JA	1/16W
R5044	301 224 9019	MT-GLAZE	10K JA	1/16W
R5046	301 224 9019	MT-GLAZE	10K JA	1/16W
R5047	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R5048	301 225 8011	MT-GLAZE	330 JA	1/16W
R5051	301 224 9019	MT-GLAZE	10K JA	1/16W
R5052	301 224 9910	MT-GLAZE	22K JA	1/16W
R5053	301 224 9910	MT-GLAZE	22K JA	1/16W
R5061	301 224 9316	MT-GLAZE	1K JA	1/16W
R5062	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5063	301 224 9316	MT-GLAZE	1K JA	1/16W
R5064	301 224 9316	MT-GLAZE	1K JA	1/16W
R5066	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5067	301 224 9316	MT-GLAZE	1K JA	1/16W
R507	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5070	301 225 8011	MT-GLAZE	330 JA	1/16W
R5072	301 224 9019	MT-GLAZE	10K JA	1/16W
R508	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5082	301 224 9316	MT-GLAZE	1K JA	1/16W
R5090	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R511	301 224 8814	MT-GLAZE	100 JA	1/16W
R512	301 224 8814	MT-GLAZE	100 JA	1/16W
R516	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5213	301 224 8814	MT-GLAZE	100 JA	1/16W
R5215	301 224 8814	MT-GLAZE	100 JA	1/16W
R5220	301 224 8814	MT-GLAZE	100 JA	1/16W
R5223	301 224 8814	MT-GLAZE	100 JA	1/16W
R531	301 224 8814	MT-GLAZE	100 JA	1/16W
R5317	301 225 1814	MT-GLAZE	47 JA	1/16W
R5318	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5346	301 226 2414	MT-GLAZE	560 JA	1/16W
R537	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R538	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R541	301 224 8814	MT-GLAZE	100 JA	1/16W
R542	301 224 8814	MT-GLAZE	100 JA	1/16W
R546	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5542	301 224 9316	MT-GLAZE	1K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R561	301 224 8814	MT-GLAZE	100 JA	1/16W
R5611	301 224 8814	MT-GLAZE	100 JA	1/16W
R567	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R568	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5701	301 259 7823	MT-GLAZE	20K JA	1/16W
R5702	301 225 0718	MT-GLAZE	56K JA	1/16W
R5703	301 224 9019	MT-GLAZE	10K JA	1/16W
R5704	301 224 8814	MT-GLAZE	100 JA	1/16W
R5705	301 224 9019	MT-GLAZE	10K JA	1/16W
R5706	301 224 9019	MT-GLAZE	10K JA	1/16W
R5708	301 224 9019	MT-GLAZE	10K JA	1/16W
R5709	301 230 8013	MT-GLAZE	1K JA	1/3W
R571	301 224 8814	MT-GLAZE	100 JA	1/16W
R5710	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5711	301 301 3718	MT-GLAZE	2K FA	1/16W
R5712	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R5714	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R572	301 224 8814	MT-GLAZE	100 JA	1/16W
R5751	301 224 9019	MT-GLAZE	10K JA	1/16W
R5752	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5753	301 224 9316	MT-GLAZE	1K JA	1/16W
R5754	301 224 9019	MT-GLAZE	10K JA	1/16W
R576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5821	301 225 2118	MT-GLAZE	12K JA	1/16W
R5822	301 224 8913	MT-GLAZE	100K JA	1/16W
R5823	301 294 3016	MT-GLAZE	10K FA	1/16W
R5824	301 294 3511	MT-GLAZE	27K FA	1/16W
R5825	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5837	301 224 9019	MT-GLAZE	10K JA	1/16W
R5838	301 224 9316	MT-GLAZE	1K JA	1/16W
R5839	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5840	301 224 9019	MT-GLAZE	10K JA	1/16W
R5841	301 294 3016	MT-GLAZE	10K FA	1/16W
R5860	301 265 5810	MT-GLAZE	82K FA	1/10W
R5861	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R5863	301 294 3016	MT-GLAZE	10K FA	1/16W
R5864	301 294 3016	MT-GLAZE	10K FA	1/16W
R5865	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R595	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R596	401 344 1914	MT-GLAZE	10K DA	1/16W
R597	401 351 3710	MT-GLAZE	1.8K DA	1/16W
R598	401 351 2010	MT-GLAZE	240 DA	1/16W
R599	301 224 9316	MT-GLAZE	1K JA	1/16W
R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6806	301 224 9217	MT-GLAZE	15K JA	1/16W
R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R6822	301 224 9316	MT-GLAZE	1K JA	1/16W
R6823	301 224 9019	MT-GLAZE	10K JA	1/16W
R6842	301 229 3913	MT-GLAZE	180 JA	1/16W
R6843	301 229 3913	MT-GLAZE	180 JA	1/16W
R6845	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6848	301 225 8011	MT-GLAZE	330 JA	1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6856	301 224 9019	MT-GLAZE	10K JA	1/16W
R6857	301 229 3913	MT-GLAZE	180 JA	1/16W
R6858	301 229 3913	MT-GLAZE	180 JA	1/16W
R6870	301 225 8011	MT-GLAZE	330 JA	1/16W
R6873	301 229 3913	MT-GLAZE	180 JA	1/16W
R6874	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6877	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6881	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6882	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6883	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7801	301 224 9019	MT-GLAZE	10K JA	1/16W
R7802	301 224 9019	MT-GLAZE	10K JA	1/16W
R7803	301 224 9019	MT-GLAZE	10K JA	1/16W
R7805	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7816	301 225 8110	MT-GLAZE	10 JA	1/16W
R7818	301 294 3016	MT-GLAZE	10K FA	1/16W
R7819	301 224 8913	MT-GLAZE	100K JA	1/16W
R7821	301 294 3511	MT-GLAZE	27K FA	1/16W
R7824	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7828	301 224 9019	MT-GLAZE	10K JA	1/16W
R7829	301 224 9316	MT-GLAZE	1K JA	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA	1/16W
R7832	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7833	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7834	301 286 4717	MT-GLAZE	30K JA	1/16W
R7841	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7842	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7843	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7844	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R7845	301 224 9316	MT-GLAZE	1K JA	1/16W
R7846	301 284 3326	MT-GLAZE	3K FA	1/16W
R7847	301 286 4717	MT-GLAZE	30K JA	1/16W
R7848	301 224 9019	MT-GLAZE	10K JA	1/16W
R7863	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7866	301 225 8110	MT-GLAZE	10 JA	1/16W
R7869	301 224 8913	MT-GLAZE	100K JA	1/16W
R7871	301 294 3511	MT-GLAZE	27K FA	1/16W
R7874	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7878	301 224 9019	MT-GLAZE	10K JA	1/16W
R7879	301 224 9316	MT-GLAZE	1K JA	1/16W
R7881	301 224 9316	MT-GLAZE	1K JA	1/16W
R7882	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7883	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7884	301 286 4717	MT-GLAZE	30K JA	1/16W
R801	301 224 9019	MT-GLAZE	10K JA	1/16W
R8039	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R804	301 224 9019	MT-GLAZE	10K JA	1/16W
R8040	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8049	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8050	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8059	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8069	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R807	301 224 9019	MT-GLAZE	10K JA	1/16W
R808	301 224 9019	MT-GLAZE	10K JA	1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R812	301 224 9316	MT-GLAZE	1K JA	1/16W
R813	301 224 9316	MT-GLAZE	1K JA	1/16W
R841	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R846	301 224 9316	MT-GLAZE	1K JA	1/16W
R848	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R851	301 224 9316	MT-GLAZE	1K JA	1/16W
R852	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8801	301 224 9316	MT-GLAZE	1K JA	1/16W
R8802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8804	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8805	301 224 9316	MT-GLAZE	1K JA	1/16W
R8806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8807	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8809	301 224 8814	MT-GLAZE	100 JA	1/16W
R8812	301 225 8110	MT-GLAZE	10 JA	1/16W
R8813	301 225 8110	MT-GLAZE	10 JA	1/16W
R8814	301 224 9415	MT-GLAZE	1M JA	1/16W
R8815	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8816	301 264 6511	MT-GLAZE	2.2K FA	1/10W

Electrical Parts List

Key No.	Part No.	Description		
R8831	301 224 9019	MT-GLAZE	10K JA	1/16W
R8833	301 225 7915	MT-GLAZE	220 JA	1/16W
R8834	301 224 9712	MT-GLAZE	22 JA	1/16W
R8837	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8838	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8839	301 225 7915	MT-GLAZE	220 JA	1/16W
R8840	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8841	301 224 9019	MT-GLAZE	10K JA	1/16W
R8843	301 224 9019	MT-GLAZE	10K JA	1/16W
R8844	301 224 9019	MT-GLAZE	10K JA	1/16W
R8846	301 224 8913	MT-GLAZE	100K JA	1/16W
R8853	301 225 8110	MT-GLAZE	10 JA	1/16W
R8854	301 225 8110	MT-GLAZE	10 JA	1/16W
R9873	301 255 7312	MT-GLAZE	510K JA	1/10W
R9874	301 224 8913	MT-GLAZE	100K JA	1/16W
R9875	301 224 8913	MT-GLAZE	100K JA	1/16W
R9876	301 225 8110	MT-GLAZE	10 JA	1/16W
R9878	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R9881	301 224 9019	MT-GLAZE	10K JA	1/16W
R9882	301 225 8110	MT-GLAZE	10 JA	1/16W
R9883	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9886	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9888	301 224 9316	MT-GLAZE	1K JA	1/16W
R9889	301 225 8110	MT-GLAZE	10 JA	1/16W
R9890	301 225 8110	MT-GLAZE	10 JA	1/16W
R9891	301 225 8110	MT-GLAZE	10 JA	1/16W
R9895	301 225 8011	MT-GLAZE	330 JA	1/16W
R9897	301 224 9712	MT-GLAZE	22 JA	1/16W
R9898	301 224 9712	MT-GLAZE	22 JA	1/16W
R9899	301 224 9712	MT-GLAZE	22 JA	1/16W
R9902	301 224 9019	MT-GLAZE	10K JA	1/16W
R9903	301 224 9019	MT-GLAZE	10K JA	1/16W
R9904	301 224 9019	MT-GLAZE	10K JA	1/16W
R9905	301 224 9019	MT-GLAZE	10K JA	1/16W
R9906	301 225 0817	MT-GLAZE	68K JA	1/16W
R9907	301 224 8814	MT-GLAZE	100 JA	1/16W
R9908	301 224 8814	MT-GLAZE	100 JA	1/16W
R9909	301 224 8814	MT-GLAZE	100 JA	1/16W
R9910	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9911	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9912	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9914	301 224 9019	MT-GLAZE	10K JA	1/16W
R9915	301 224 9019	MT-GLAZE	10K JA	1/16W
R9916	301 224 9019	MT-GLAZE	10K JA	1/16W
R9917	301 224 9019	MT-GLAZE	10K JA	1/16W
R9918	301 224 9019	MT-GLAZE	10K JA	1/16W
RB312	945 037 0831	R-NETWORK 47X4 1/16W		
RB313	945 037 0831	R-NETWORK 47X4 1/16W		
RB316	945 037 0831	R-NETWORK 47X4 1/16W		
RB318	945 037 0831	R-NETWORK 47X4 1/16W		
RB319	945 037 0831	R-NETWORK 47X4 1/16W		
RB411	945 037 0831	R-NETWORK 47X4 1/16W		
RB412	945 037 0831	R-NETWORK 47X4 1/16W		
RB413	945 037 0831	R-NETWORK 47X4 1/16W		
RB414	945 037 0831	R-NETWORK 47X4 1/16W		
RB416	945 037 0831	R-NETWORK 47X4 1/16W		
RB417	945 037 0831	R-NETWORK 47X4 1/16W		
RB418	945 037 0831	R-NETWORK 47X4 1/16W		
RB419	945 037 0831	R-NETWORK 47X4 1/16W		
RB421	945 037 0831	R-NETWORK 47X4 1/16W		
RB422	945 037 0831	R-NETWORK 47X4 1/16W		
RB423	945 037 0831	R-NETWORK 47X4 1/16W		
RB424	945 037 0831	R-NETWORK 47X4 1/16W		
RB426	945 037 0831	R-NETWORK 47X4 1/16W		
RB427	945 037 0831	R-NETWORK 47X4 1/16W		
RB428	945 037 0831	R-NETWORK 47X4 1/16W		
RB429	945 037 0831	R-NETWORK 47X4 1/16W		

Key No.	Part No.	Description
RB431	945 037 0831	R-NETWORK 47X4 1/16W
RB432	945 037 0831	R-NETWORK 47X4 1/16W
RB433	945 037 0831	R-NETWORK 47X4 1/16W
RB434	945 037 0831	R-NETWORK 47X4 1/16W
RB436	945 037 0831	R-NETWORK 47X4 1/16W
RB437	945 037 0831	R-NETWORK 47X4 1/16W
RB501	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB506	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB536	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB566	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB568	945 028 0697	R-NETWORK 100X4 1/16W
COIL		
L1002	945 068 8349	FILTER,EMI 400MHZ
L1012	945 068 8349	FILTER,EMI 400MHZ
L1022	945 068 8349	FILTER,EMI 400MHZ
L1051	945 068 8349	FILTER,EMI 400MHZ
L1061	945 068 8349	FILTER,EMI 400MHZ
L1071	945 068 8349	FILTER,EMI 400MHZ
L1421	652 002 8500	INDUCTOR 330OHM, P
L2891	652 002 8524	INDUCTOR 220OHM, P
L2892	652 002 8685	INDUCTOR 1000OHM, P
L2893	652 002 8685	INDUCTOR 1000OHM, P
L2894	652 002 8685	INDUCTOR 1000OHM, P
L301	652 002 8524	INDUCTOR 220OHM, P
L302	652 002 8524	INDUCTOR 220OHM, P
L303	652 002 8524	INDUCTOR 220OHM, P
L304	652 002 8524	INDUCTOR 220OHM, P
L305	652 002 8524	INDUCTOR 220OHM, P
L306	652 002 8524	INDUCTOR 220OHM, P
L307	652 002 8524	INDUCTOR 220OHM, P
L308	652 002 8524	INDUCTOR 220OHM, P
L309	652 002 8524	INDUCTOR 220OHM, P
L311	652 002 8524	INDUCTOR 220OHM, P
L312	652 002 8524	INDUCTOR 220OHM, P
L313	652 002 8524	INDUCTOR 220OHM, P
L314	652 002 8524	INDUCTOR 220OHM, P
L3534	945 041 2210	INDUCTOR,0.12U K
L3622	652 002 8524	INDUCTOR 220OHM, P
L3623	652 002 8524	INDUCTOR 220OHM, P
L3626	652 002 8524	INDUCTOR 220OHM, P
L3627	652 002 8524	INDUCTOR 220OHM, P
L3628	652 002 8685	INDUCTOR 1000OHM, P
L3630	652 002 8524	INDUCTOR 220OHM, P
L3631	652 002 8685	INDUCTOR 1000OHM, P
L3633	652 002 8685	INDUCTOR 1000OHM, P
L3638	652 002 8685	INDUCTOR 1000OHM, P
L3691	652 002 8685	INDUCTOR 1000OHM, P
L402	652 002 8500	INDUCTOR 330OHM, P
L4809	652 002 8685	INDUCTOR 1000OHM, P
L4810	652 002 8685	INDUCTOR 1000OHM, P
L4811	652 002 8685	INDUCTOR 1000OHM, P
L4812	652 002 8524	INDUCTOR 220OHM, P

Electrical Parts List

Key No.	Part No.	Description
L4814	652 002 8685	INDUCTOR 1000OHM, P
L5003	645 092 8819	INDUCTOR,100U M
L501	652 002 8500	INDUCTOR 330OHM, P
L531	652 002 8500	INDUCTOR 330OHM, P
L5332	945 032 8344	INDUCTOR,39U J
L5606	652 002 8500	INDUCTOR 330OHM, P
L5608	652 002 8500	INDUCTOR 330OHM, P
L5609	652 002 8500	INDUCTOR 330OHM, P
L561	652 002 8500	INDUCTOR 330OHM, P
L5662	652 002 8500	INDUCTOR 330OHM, P
L5701	652 002 8500	INDUCTOR 330OHM, P
L5702	652 002 8500	INDUCTOR 330OHM, P
L5703	652 002 8500	INDUCTOR 330OHM, P
L5821	652 002 8784	INDUCTOR,10U,N
L5822	652 002 8500	INDUCTOR 330OHM, P
L5827	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5828	652 002 8500	INDUCTOR 330OHM, P
L5830	652 002 8500	INDUCTOR 330OHM, P
L5848	652 002 8500	INDUCTOR 330OHM, P
L5861	652 002 8784	INDUCTOR,10U,N
L5862	652 002 8500	INDUCTOR 330OHM, P
L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5868	652 002 8500	INDUCTOR 330OHM, P
L7811	652 002 8777	INDUCTOR,33U,N
L7861	645 092 8819	INDUCTOR,100U M
L8801	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L8835	645 100 9340	IMPEDANCE,120 OHM P
L8836	645 100 9340	IMPEDANCE,120 OHM P
DIODE		
D1001	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D1002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D1003	307 205 5216	DIODE RB521S-30-TE61
	408 063 9501	DIODE RB521S-30
D1004	307 205 5216	DIODE RB521S-30-TE61
	408 063 9501	DIODE RB521S-30
D2025	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D3602	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3606	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3611	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3613	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3614	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3617	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3621	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3622	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3623	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3626	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3628	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D3644	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D4813	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D5061	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D5062	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D5625	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D591	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D592	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6831	408 068 5508	LED KPT-2012YC
D6833	307 203 7816	LED SML-210LT T86 M
D6835	408 068 5201	LED KPTB-1612ESGC
D6840	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6845	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6846	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6850	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D6851	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17

Electrical Parts List

Key No.	Part No.	Description
	408 062 7201	DIODE 1SS35
D6852	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D6853	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D6854	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
D7812	407 267 5114	DIODE SS3P4-E3/84A
D7862	407 267 5114	DIODE SS3P4-E3/84A
D8902	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35
MISCELLANEOUS		
K10A	952 001 8601	SOCKET,D-SUB 15P
K10B	952 001 8571	SOCKET,D-SUB 15P
K20B	652 003 0473	JACK,RCA-2
K40B	652 002 8135	PLUG,D-SUB 9P
K9602	645 093 6760	TRANS,PULSE
SC2021	945 076 3503	SURGE-ABSORBER
SC2023	945 076 3503	SURGE-ABSORBER
SC2031	945 076 3503	SURGE-ABSORBER
SC2041	945 076 3503	SURGE-ABSORBER
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6810	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
X1331	945 088 7179	OSC,CRYSTAL 27.0MHZ
X8802	945 083 7556	OSC,CRYSTAL 25.0MHZ
X9885	945 060 9900	OSC,CERAMIC 8.00MHZ
A2000	**655 003 9064**	**ASSY,PWB,AUDIO JACK KR8AC**
K30A	652 003 2262	JACK,PHONE D3.6
K30B	652 003 2262	JACK,PHONE D3.6

(KR8AC, KS8AC) April 2010 DC 200 Printed in Japan

SANYO Electric Co., Ltd.

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XD2200	KR8-XD220000
PLC-XD2600	KS8-XD260000

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KR8-XD220000,KS8-XD260000, models PLC-XD2200,PLC-XD2600.
File with the service manual No. SM5111242-00

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading

Example 2000 K K 1000 BG
- BG: Characteristic

Example 160 E M 10
- 10: Capacitance value
  Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.
- M: Tolerance
- E: Type
- 160: Rated voltage

● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading

Example L2 C1 4R7 K N
- K: Tolerance
- 4R7: Inductance value
- C1: Manufacture code
- L2: Unique code

Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading

Example 1/2 D J 10K B
- B: Characteristic
  - Z (Carbon fuse)
  - B (Non-burnable)

Example 6 W K 8.2

Example 1/2 C K 1M
- 1M: Resistance value
  - K indicates in KΩ
  - M indicate in MΩ
- K: Tolerance (see below table)
- C: Material (see below table)
- 1/2: Rated wattage (W)

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● Transistor

(1) NPN type

Mark	Type number				
–	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

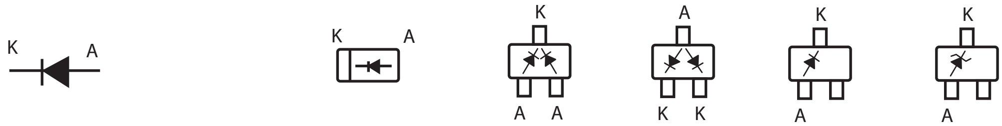
Mark	Type number				
–	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
–	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

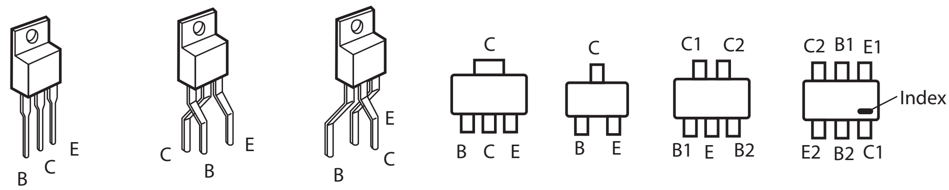
Pin description of diode, transistor and IC

● Diode



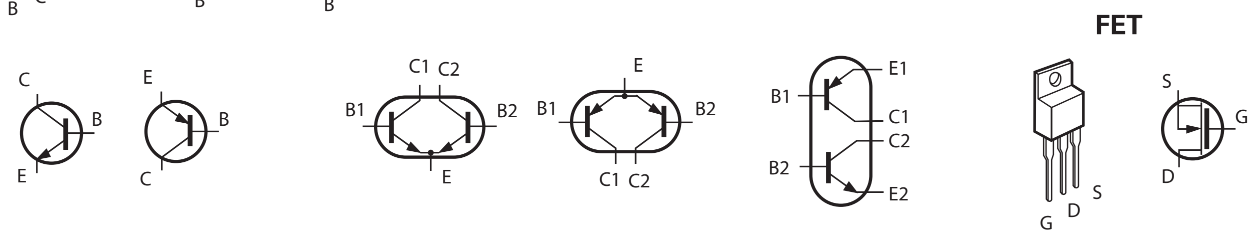
K: Cathode
A: Anode

● Transistor/FET

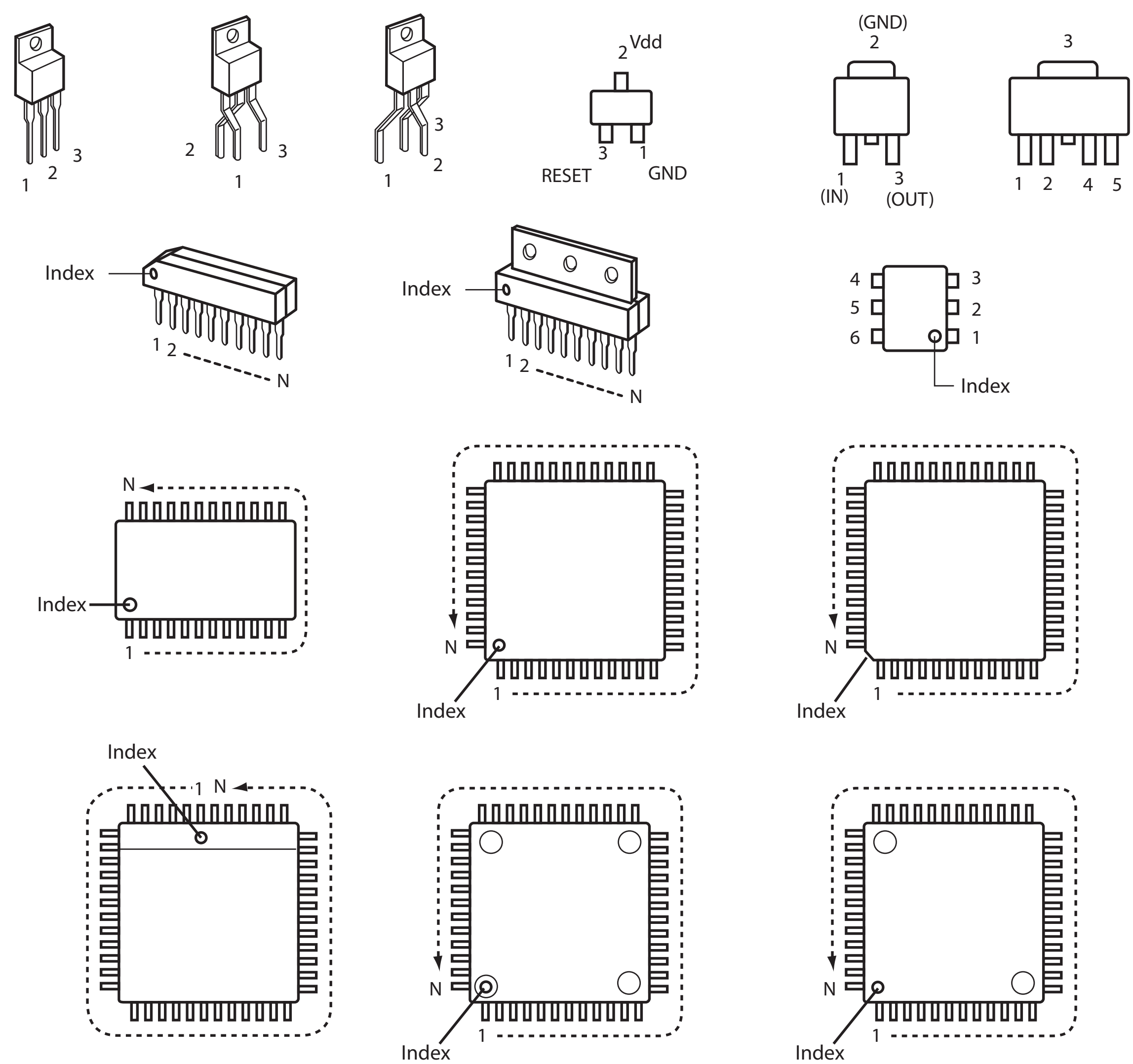


C: Collector
B: Base
E: Emitter

D: Drain
G: Gate
S: Source



● IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.
Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.
The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.
Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

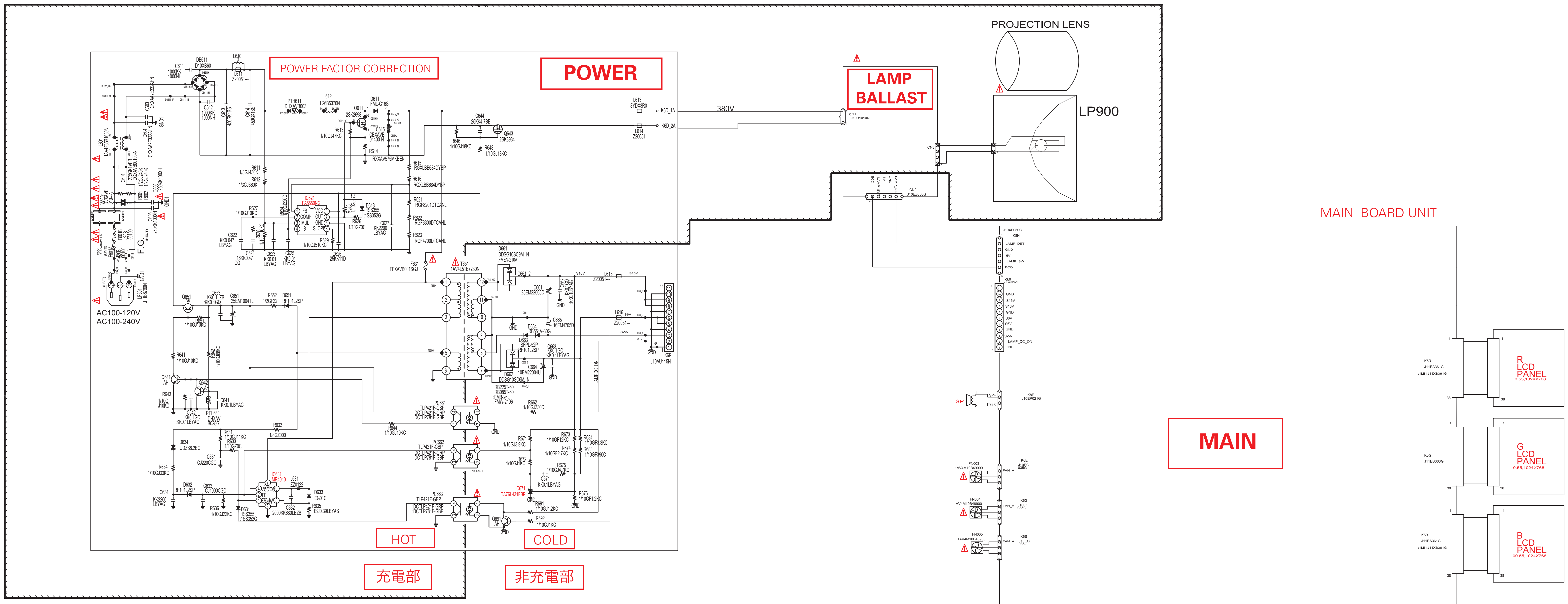
Solder

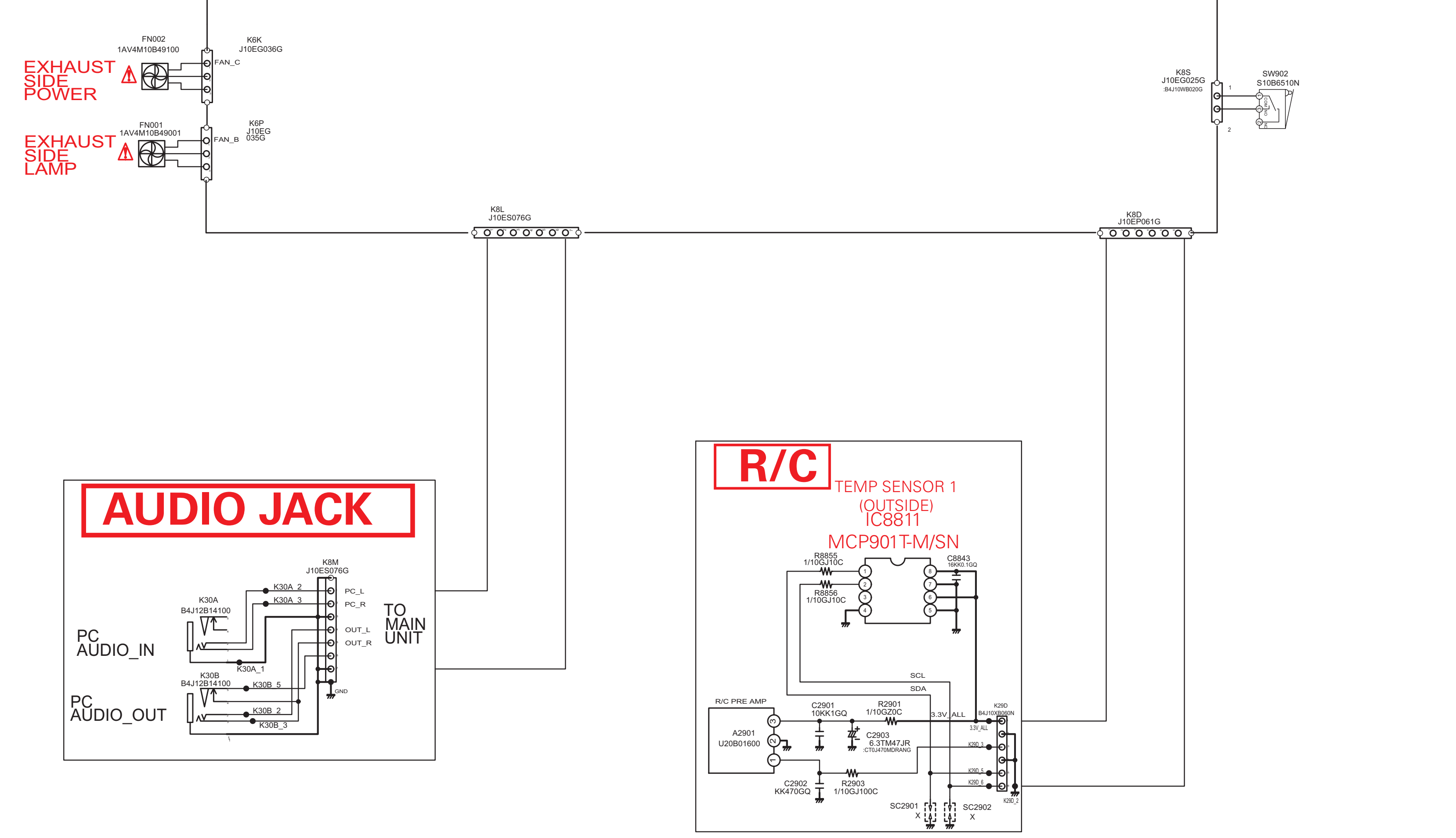
Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.





CAUTION

Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.

This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.

1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

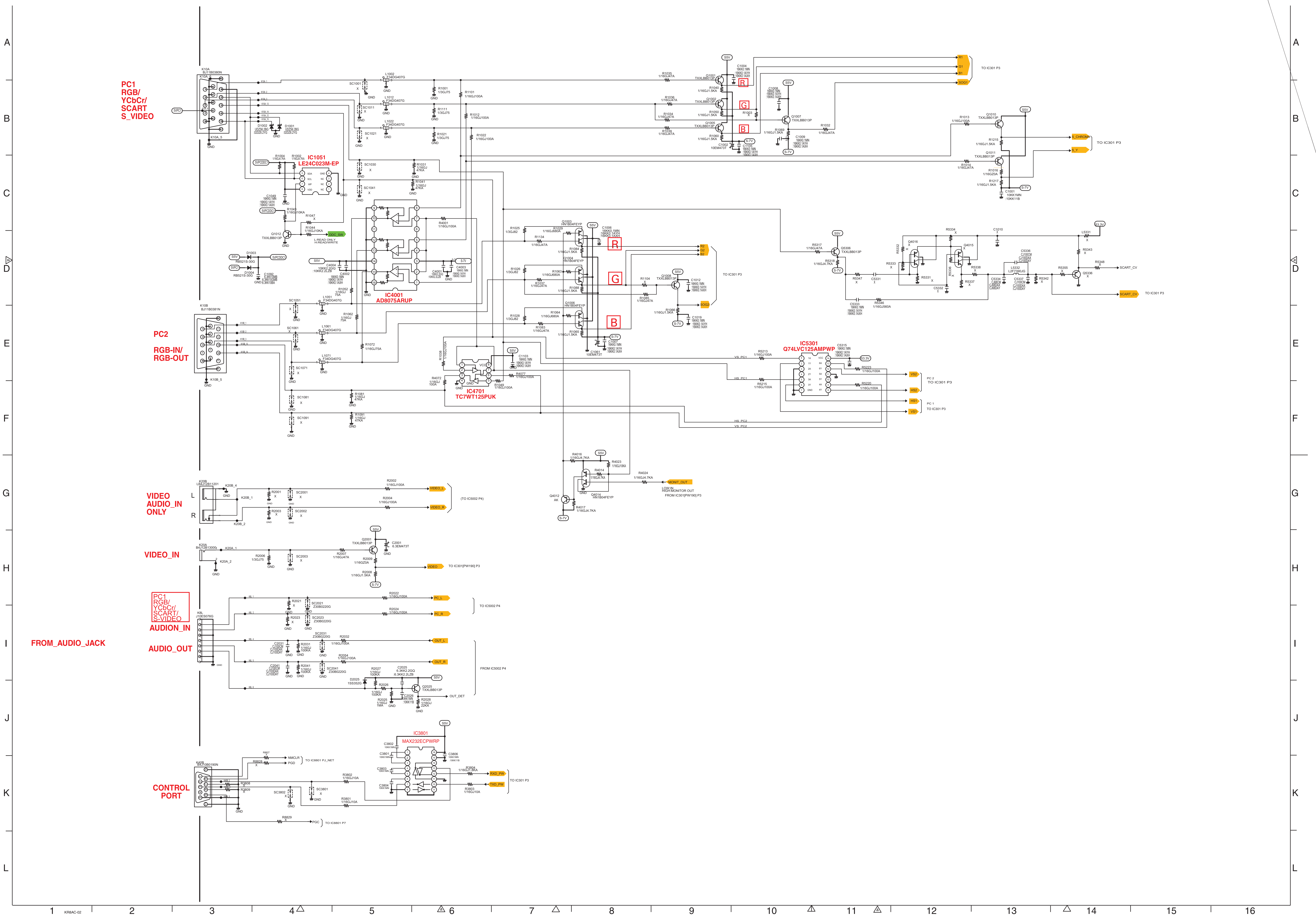
注　意

⚠ 印の部品は、安全上重要な部品です。交換をするときは安全および性能維持のため必ず指定の部品をご使用ください。

ヒューズは必ず指定品番のものをご使用ください。指定品番以外のヒューズを使用しますと事故や、火災の原因となります。

本機は充電部と非充電部のアースが異なりますので下記の事項にご注意ください。

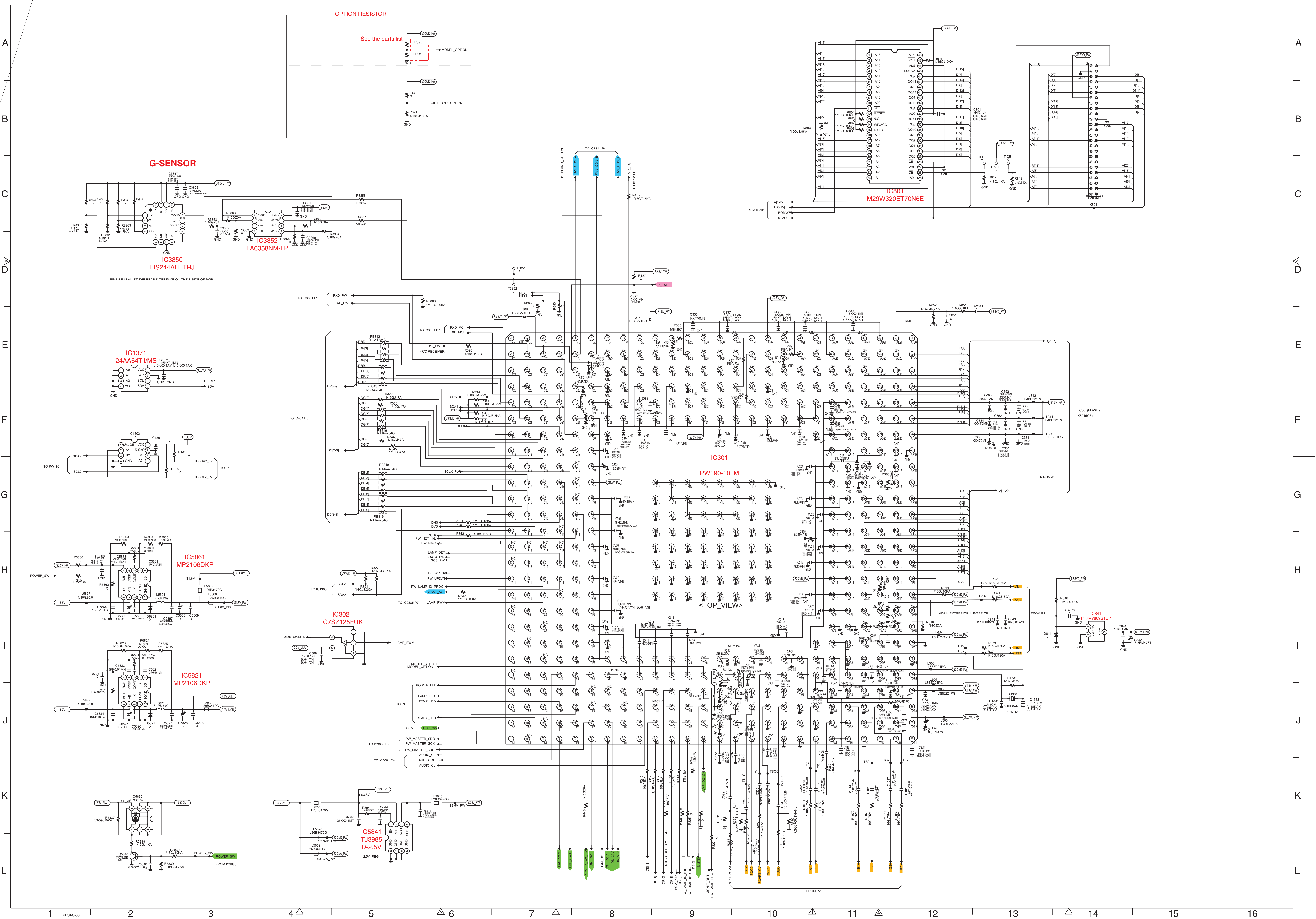
１．充電部に触れたり、充電部と非充電部に同時に触れると感電することがあります。
２．充電部、非充電部の間を短絡しないでください。故障の原因になります。
３．測定器をつなぐ際、アースは測定点と同じ回路のアースから取ってください。

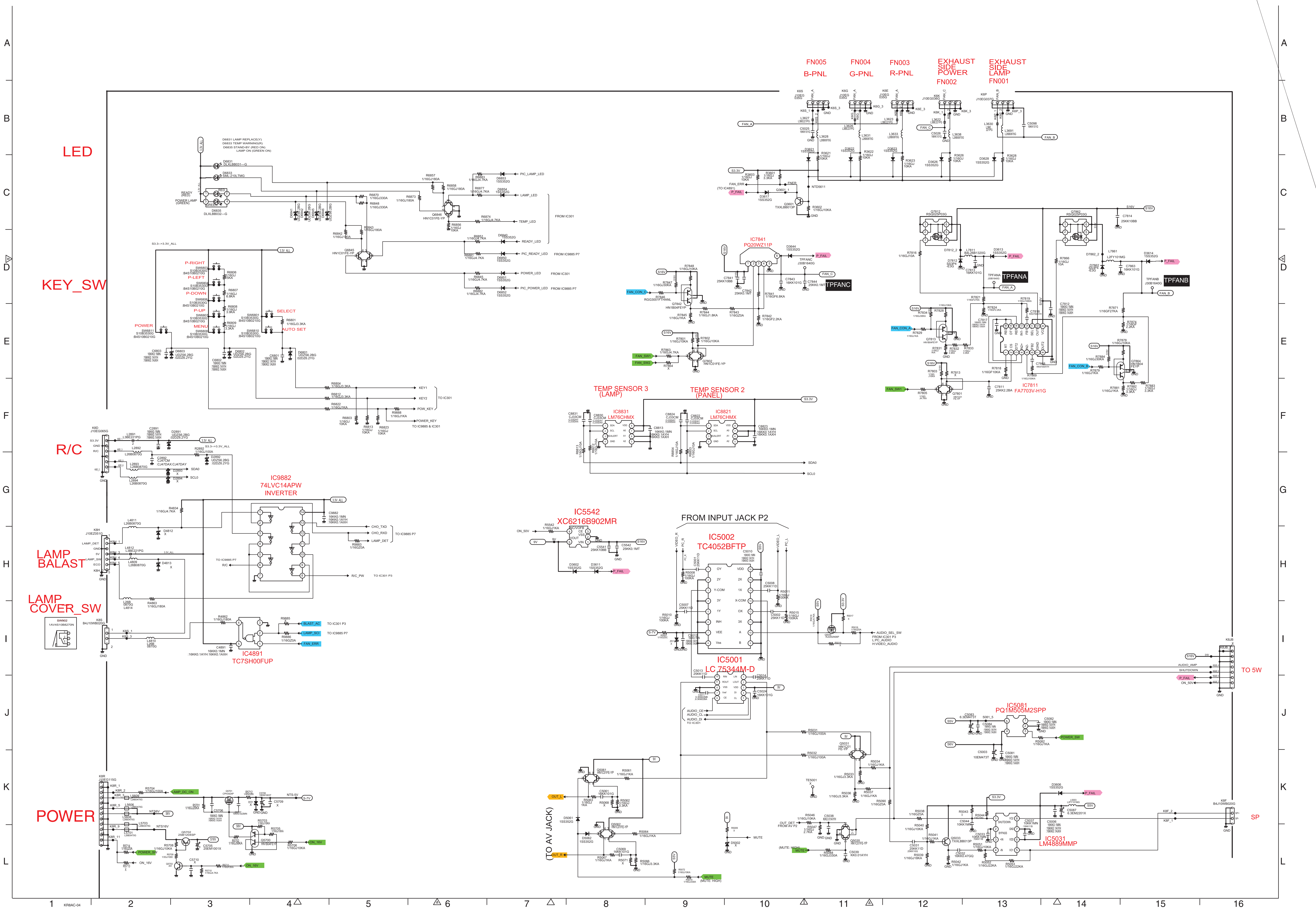


PC1
RGB/
YCbCr/
SCART
S_VIDEO
IC1051
LE24C023M-EP
IC4001
AD8075ARUP
PC2
RGB-IN/
RGB-OUT
IC4701
TC7WT125PUK
IC5301
Q74LVC125AMPWP
TO IC301 P3
VIDEO
AUDIO_IN
ONLY
VIDEO_IN
AUDION_IN
AUDIO_OUT
FROM_AUDIO_JACK
IC3801
MAX232ECPWRP
CONTROL
PORT

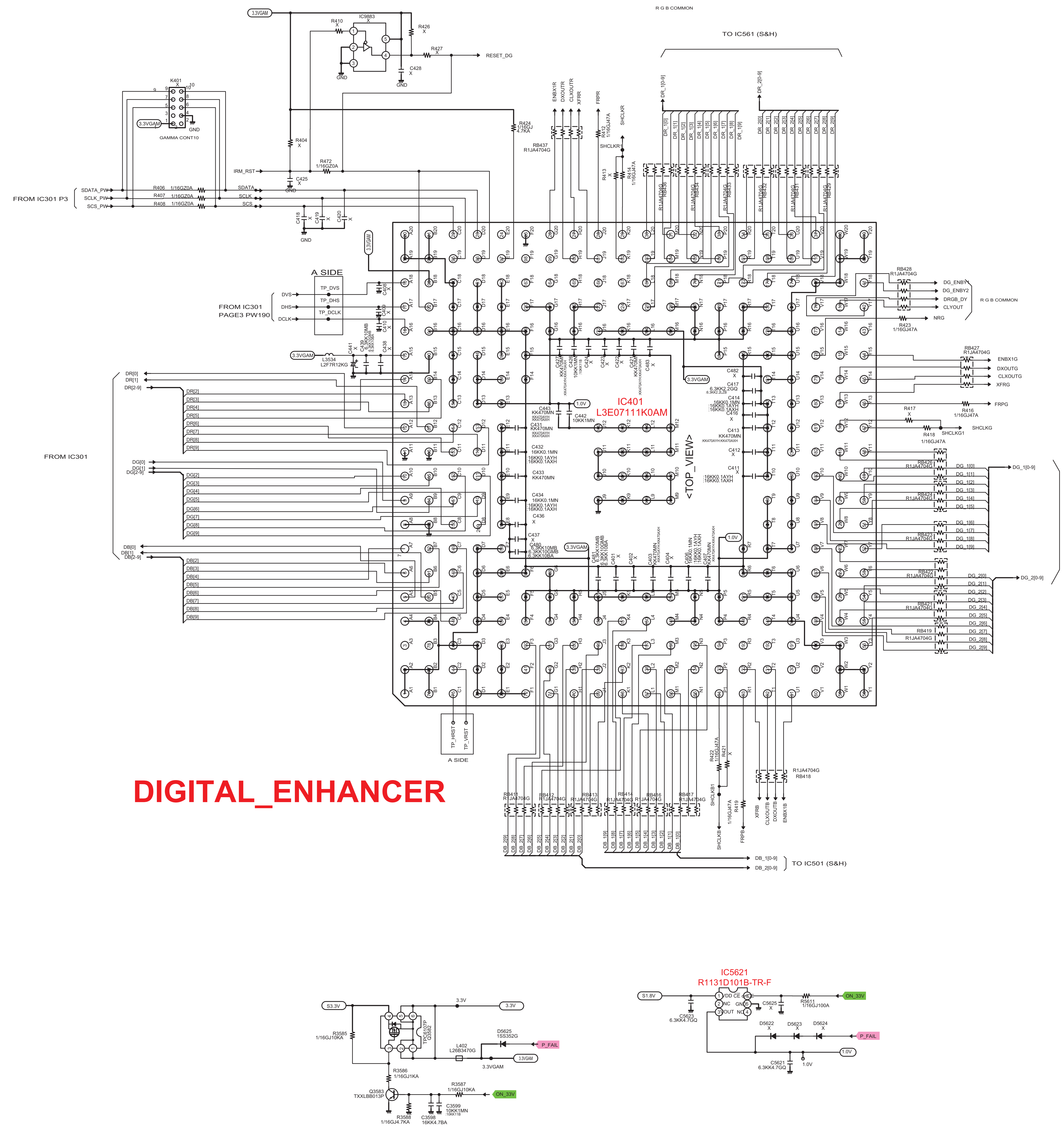
A4

SCH_KR8AC

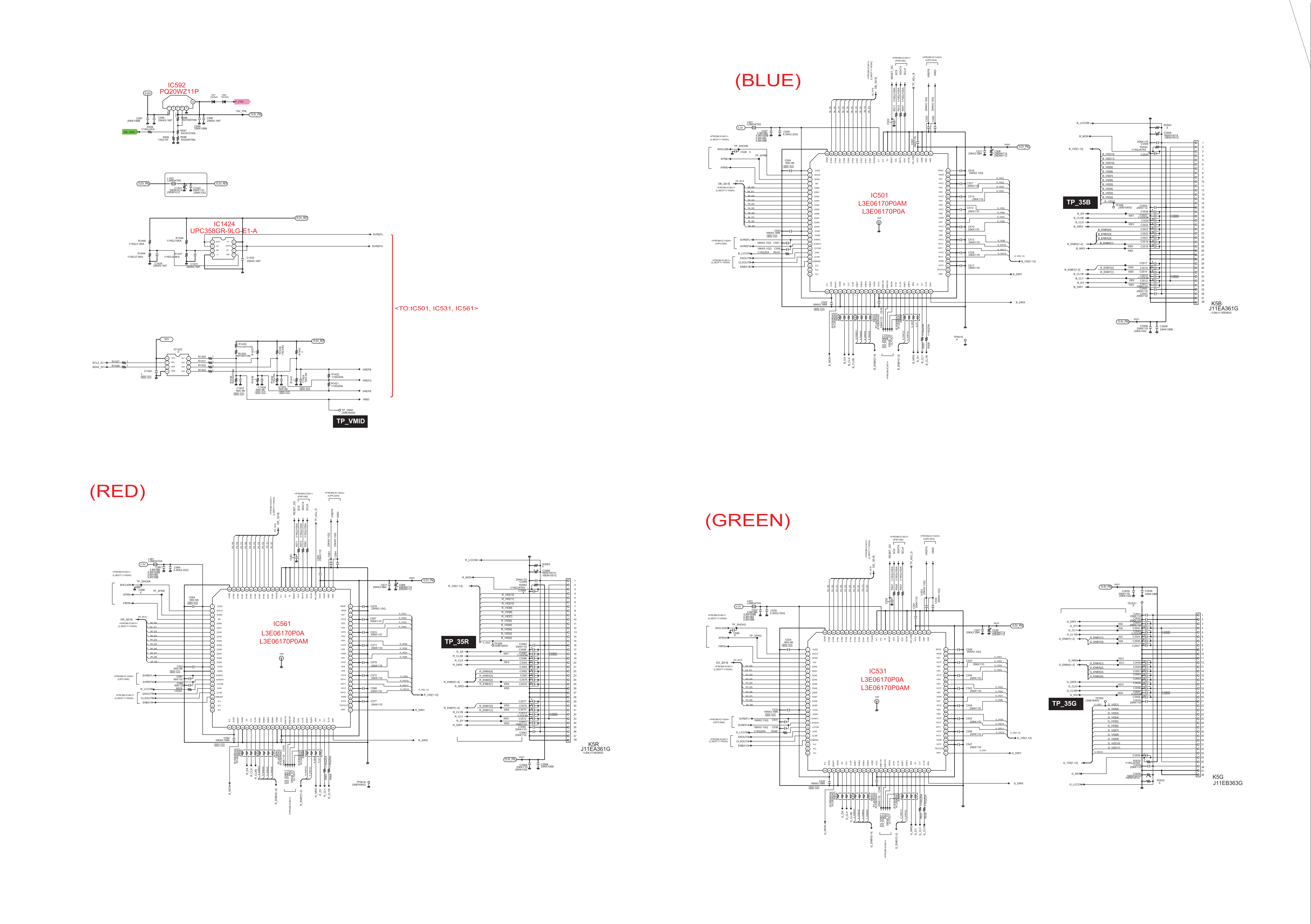

OPTION RESISTOR
See the parts list
G-SENSOR
IC3850
LIS244ALHTRJ
IC3852
LA6358NM-LP
PIN1-4 PARALLEL THE REAR INTERFACE ON THE B-SIDE OF PWB
IC1371
24AA64T-I/MS
IC1303
IC5861
MP2106DKP
IC5821
MP2106DKP
IC302
TC7SZ125FUK
IC5841
TJ3985
D-2.5V
IC301
PW190-10LM
<TOP_VIEW>
IC801
M29W320ET70N6E
IC841
PT7M7809STEP

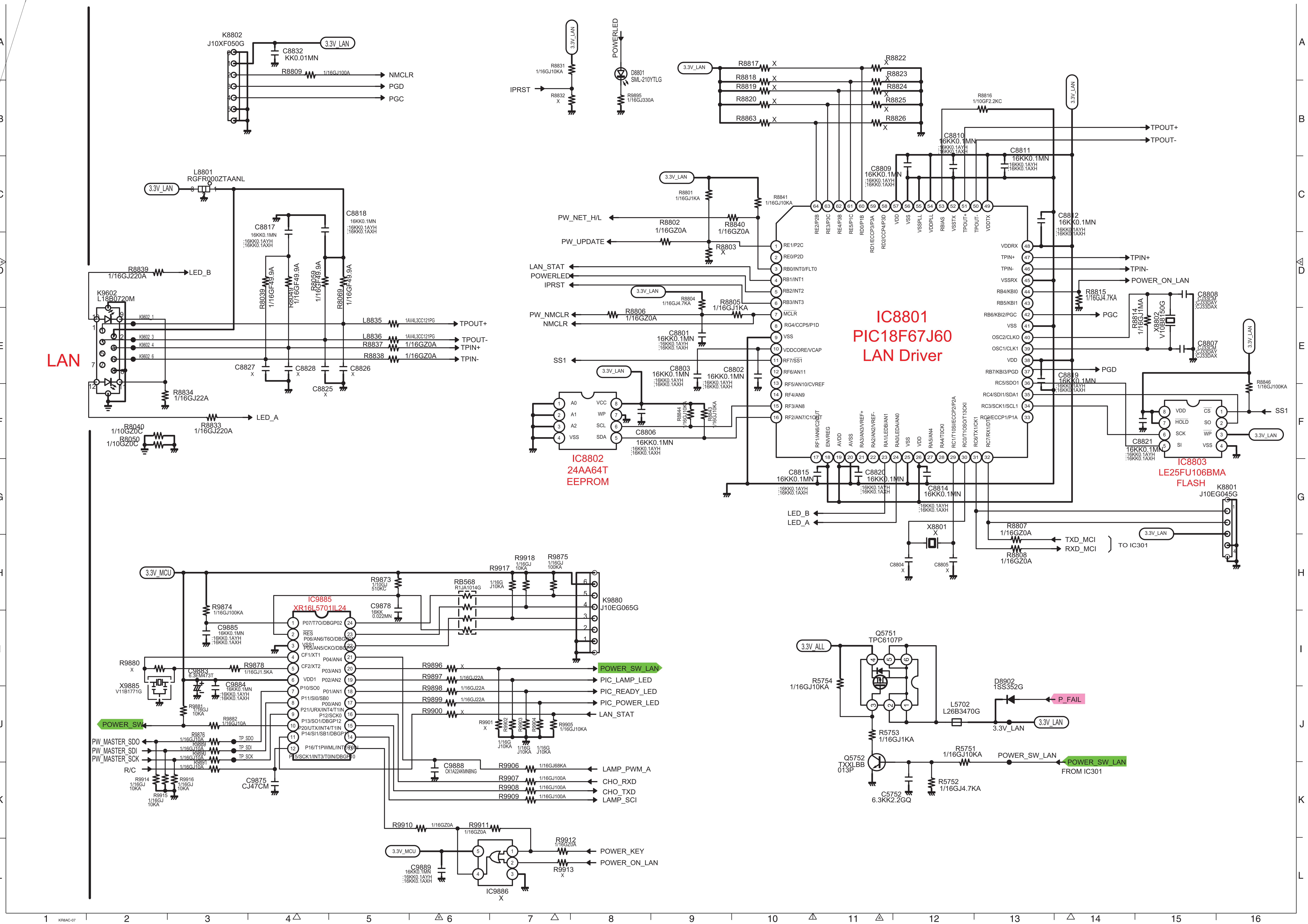

LED
KEY_SW
R/C
LAMP BALAST
LAMP COVER_SW
POWER
FN005 B-PNL
FN004 G-PNL
FN003 R-PNL
EXHAUST SIDE POWER FN002
EXHAUST SIDE LAMP FN001
IC7841 PQ20WZ11P
TPFANC
TPFANA
TPFANB
IC7811 FA7703V-H1G
TEMP SENSOR 3 (LAMP)
TEMP SENSOR 2 (PANEL)
IC8831 LM76CHMX
IC8821 LM76CHMX
IC9882 74LVC14APW INVERTER
IC4891 TC7SH00FUP
IC5542 XC6216B902MR
FROM INPUT JACK P2
IC5002 TC4052BFTP
IC5001 LC75344M-D
IC5081 PQ1M505M2SPP
IC5031 LM4889MMP
(TO AV JACK)
TO 5W
SP

A A
B B
C C
D D
E E
F F
G G
H H
I I
J J
K K
L L



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


IC592
PQ20WZ11P
IC1424
UPC358GR-9LG-E1-A
<TO:IC501, IC531, IC561>
TP_VMID
(BLUE)
IC501
L3E06170P0AM
L3E06170P0A
TP_35B
K5B
J11EA361G
(RED)
IC561
L3E06170P0A
L3E06170P0AM
TP_35R
K5R
J11EA361G
(GREEN)
IC531
L3E06170P0A
L3E06170P0AM
TP_35G
K5G
J11EB363G
KR8AC-06

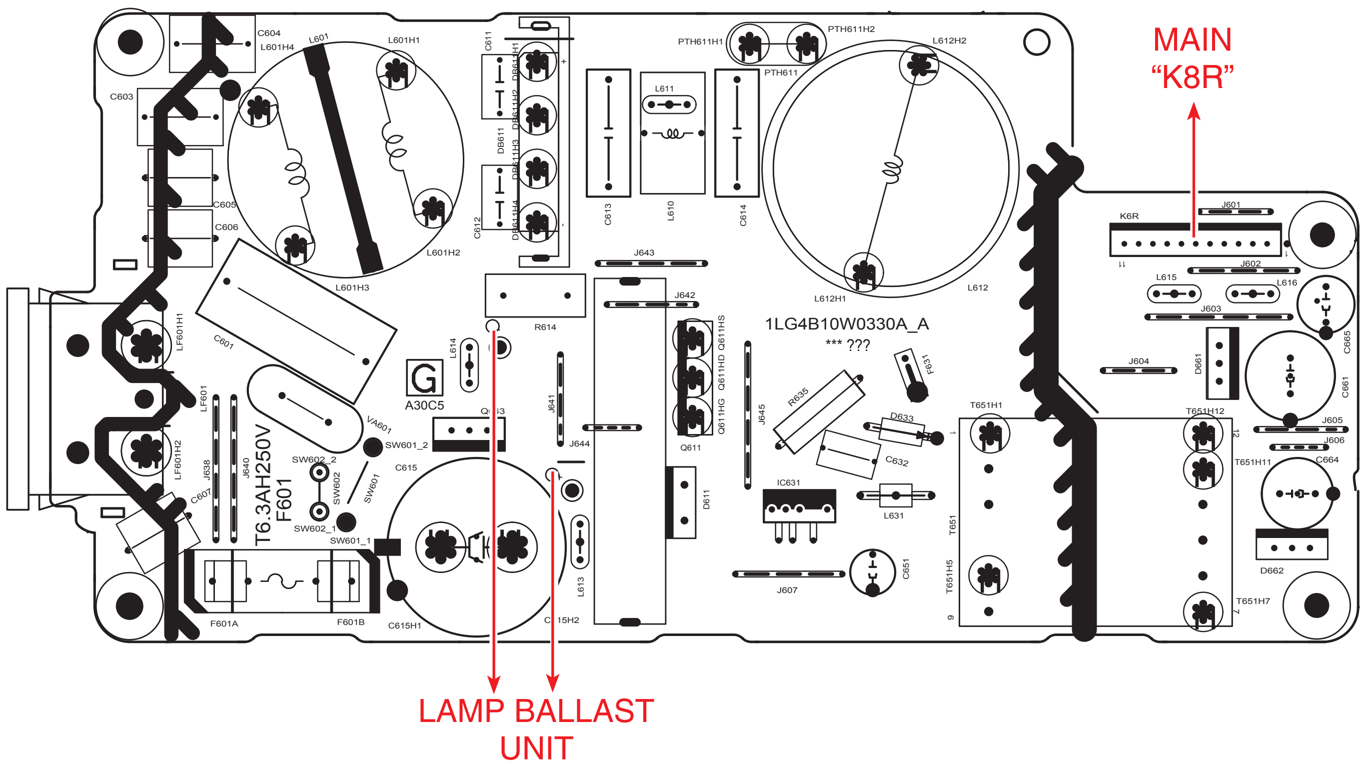


LAN
IC8801
PIC18F67J60
LAN Driver
IC8802
24AA64T
EEPROM
IC8803
LE25FU106BMA
FLASH
IC9885
XR16L5701IL24
IC9886
K8802
J10XF050G
3.3V_LAN
C8832
KK0.01MN
R8809
NMCLR
PGD
PGC
L8801
RGFR000ZTAANL
C8817
C8818
K9602
L18B0720M
R8839
1/16GJ220A
LED_B
L8835
TPOUT+
L8836
TPOUT-
R8837
1/16GZ0A
TPIN+
R8838
TPIN-
C8827
C8828
C8826
C8825
R8834
1/16GJ22A
R8833
1/16GJ220A
LED_A
R8040
1/10GZ0C
R8050
1/10GZ0C
POWERLED
D8801
SML-210YTLG
R8831
1/16GJ10KA
R8832
IPRST
R8895
1/16GJ330A
R8817
R8818
R8819
R8820
R8863
R8822
R8823
R8824
R8825
R8826
R8816
1/10GF2.2KC
C8810
16KK0.1MN
C8811
16KK0.1MN
C8809
16KK0.1MN
R8801
1/16GJ1KA
R8841
1/16GJ10KA
PW_NET_H/L
R8802
1/16GZ0A
R8840
1/16GZ0A
PW_UPDATE
R8803
LAN_STAT
POWERLED
R8804
1/16GJ4.7KA
R8805
1/16GJ1KA
PW_NMCLR
R8806
1/16GZ0A
C8801
16KK0.1MN
SS1
C8803
16KK0.1MN
C8802
16KK0.1MN
R8844
R8843
1/16GJ10KA
C8806
16KK0.1MN
C8812
16KK0.1MN
TPIN+
TPIN-
POWER_ON_LAN
R8815
1/16GJ4.7KA
R8814
1/16GJ1MA
X8802
V10B8150G
C8808
C8807
PGC
PGD
C8819
16KK0.1MN
R8846
1/16GJ100KA
C8821
16KK0.1MN
C8815
16KK0.1MN
C8820
16KK0.1MN
C8814
16KK0.1MN
LED_B
LED_A
X8801
C8804
C8805
R8807
1/16GZ0A
R8808
1/16GZ0A
TXD_MCI
RXD_MCI
TO IC301
K8801
J10EG045G
3.3V_MCU
R9873
1/10GJ
510KC
R9917
R9918
1/16GJ
10KA
R9875
1/16GJ
100KA
RB568
R1JA1014G
K9880
J10EG065G
R9874
1/16GJ100KA
C9885
16KK0.1MN
C9878
16KK
0.022MN
R9880
X9885
V11B1771G
C9883
6.3EM473T
R9878
1/16GJ1.5KA
C9884
16KK0.1MN
R9881
1/16GJ
10KA
R9882
1/16GJ10A
POWER_SW
PW_MASTER_SDO
PW_MASTER_SDI
PW_MASTER_SCK
R/C
R9914
R9915
R9916
C9875
CJ47CM
R9896
POWER_SW_LAN
R9897
PIC_LAMP_LED
R9898
PIC_READY_LED
R9899
PIC_POWER_LED
R9900
LAN_STAT
R9901
R9902
R9903
R9904
R9905
1/16GJ10KA
C9888
R9906
1/16GJ68KA
LAMP_PWM_A
R9907
1/16GJ100A
CHO_RXD
R9908
1/16GJ100A
CHO_TXD
R9909
1/16GJ100A
LAMP_SCI
R9910
1/16GZ0A
R9911
1/16GZ0A
R9912
1/16GZ0A
POWER_KEY
POWER_ON_LAN
R9913
C9889
16KK0.1MN
3.3V_ALL
Q5751
TPC6107P
R5754
1/16GJ10KA
D8902
1SS352G
P_FAIL
L5702
L26B3470G
3.3V_LAN
R5753
1/16GJ1KA
Q5752
TXXLBB
013P
R5751
1/16GJ10KA
POWER_SW_LAN
FROM IC301
C5752
6.3KK2.2GQ
R5752
1/16GJ4.7KA

NO DATA

Printed Wiring Board Diagrams

POWER (SIDE:A)

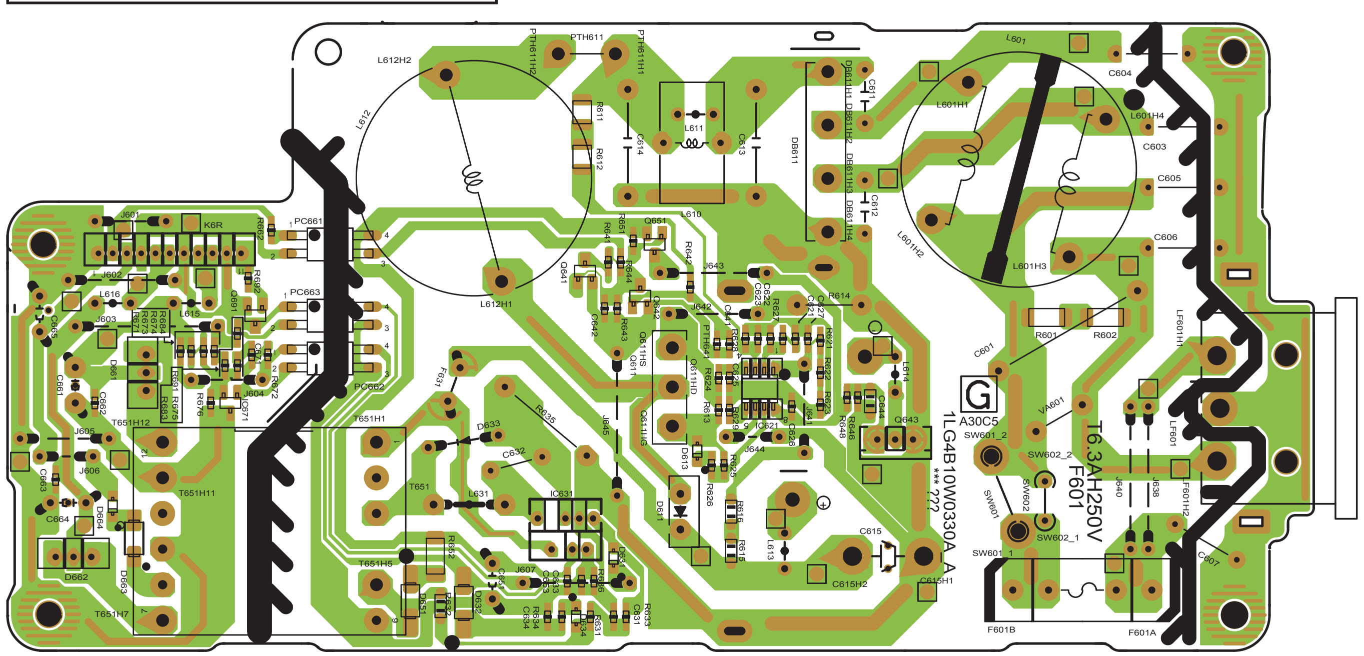


⚠ CAUTION

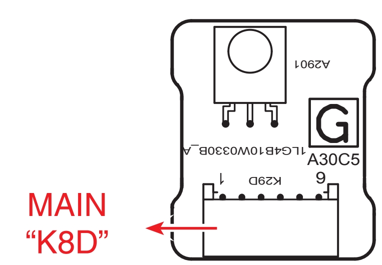
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

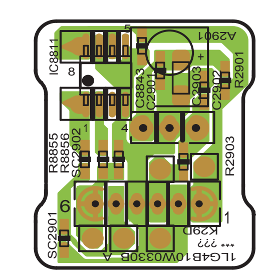
POWER (SIDE:B)



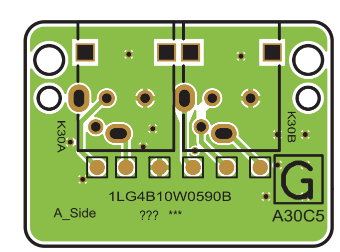
R/C (SIDE:A)



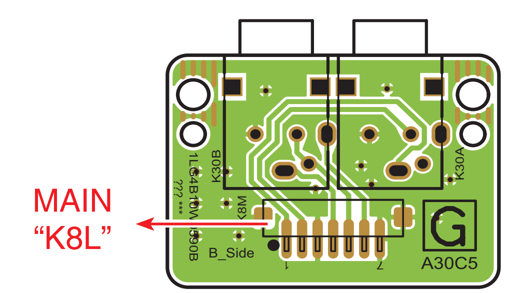
R/C (SIDE:B)



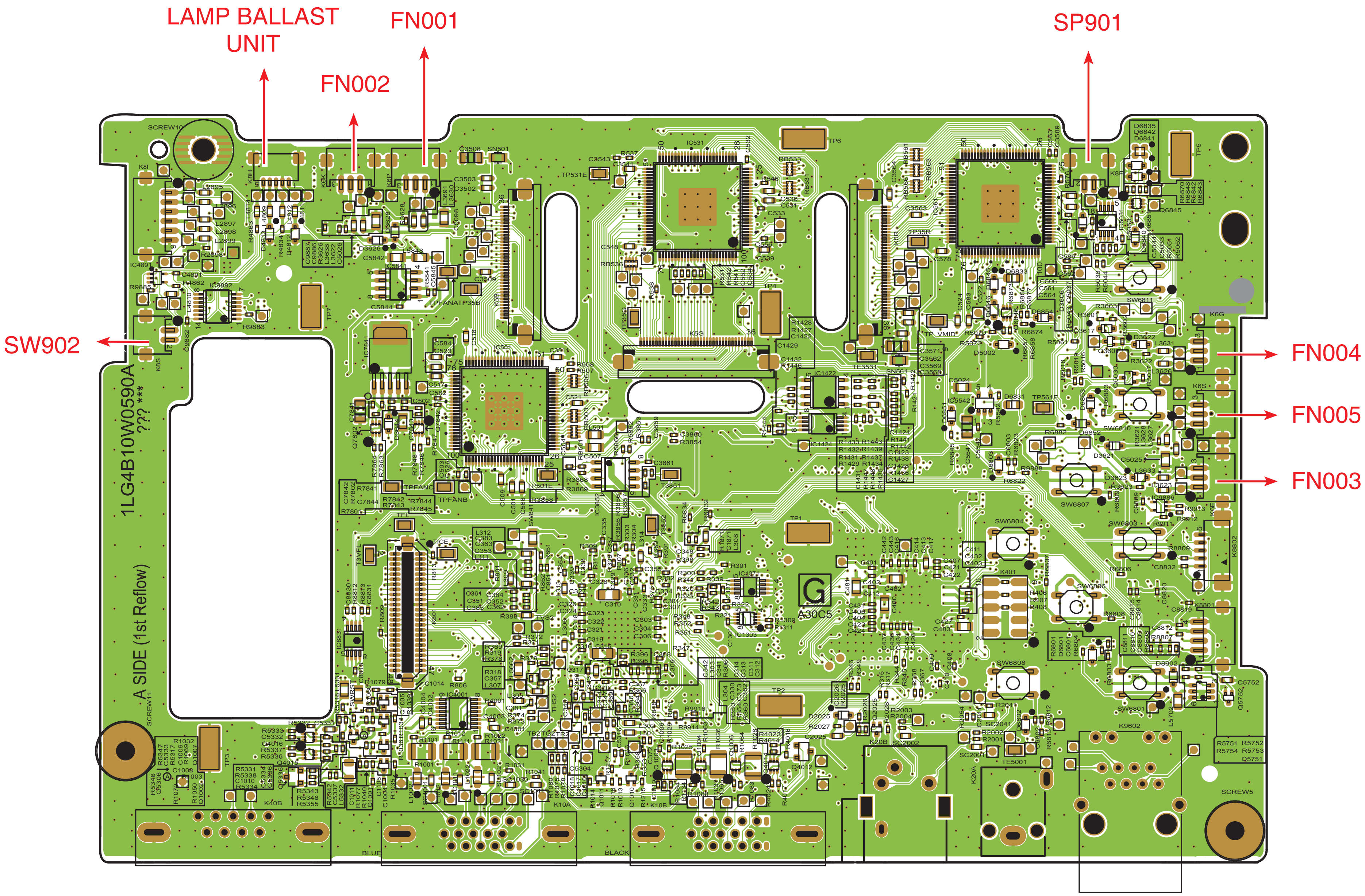
AUDIO JACK (SIDE:A)



AUDIO JACK (SIDE:B)

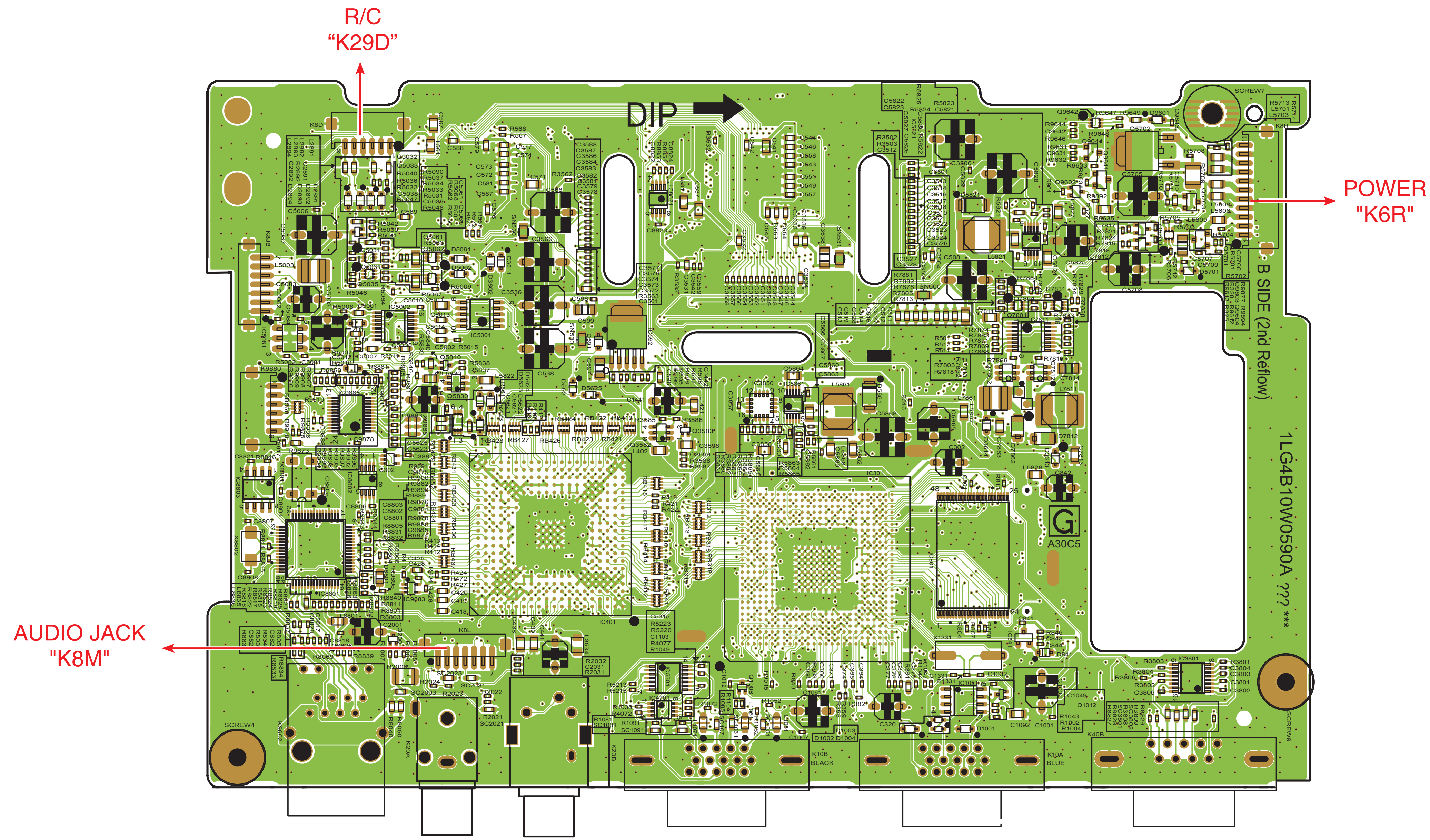


MAIN (SIDE:A)



LAMP BALLAST UNIT
FN001
FN002
SP901
SW902
FN004
FN005
FN003
1LG4B10W0590A
A SIDE (1st Reflow)

MAIN (SIDE:B)



R/C
"K29D"
POWER
"K6R"
AUDIO JACK
"K8M"
DIP
B SIDE (2nd Reflow)
1LG4B10W0590A
A30C5

NO DATA